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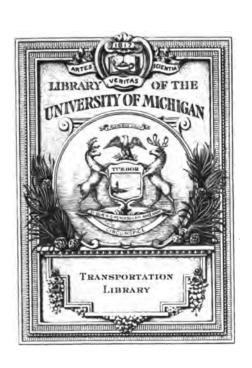
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M. S. Parent chees.

LIST OF PATENTS

FOR

INVENTIONS AND DESIGNS,

ISSUED BY THE

UNITED STATES,

FROM 1790 TO 1847,

WITH THE

PATENT LAWS AND NOTES OF DECISIONS

OF THE

COURTS OF THE UNITED STATES FOR THE SAME PERIOD:



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CONTENTS.

									-			_
	_									•		Page
-		cot Laws	•	•	-	-		•	-	-	•	· •
Decimo	M 0	f Courts	•	•	-	-	-	-	-	-	•	XXXVI
					DI	GES	Т.			•		. • .
•												•
CLASS	1.	Agricultu		-			-		-	-	-	. 3
CLASS	2.	Metallurg	-				-				-	39
CLASS	3.	Manufac						•		fachine	s for	
					₩ool, C					-	-	67
CLASS	4.	Chemical					_		-	_		
		Dying	, Color	makir	ng, Disti	illing, S	Soap and	l Candl	e makir	ıg, Mor	tars,	
		Cemer	its, &c.	-	-	•	-	-	-	-	•	99
CLASS	5.	Calorific,	compr	ising I	amps,	Firepla	ces, Sto	ves, G	rates, F	'urnaces	for	
					ooking .						•	123
CLASS	6.	Steam ar		Engin	es, inclu	ading E	Boilers a	ind Fu	rnaces t	herefor,	and	
		parts t	hereof	-	-	-	-	-	-	-	-	151
CLASS	7.	Navigatio			-		•	_			•	
		ance o	n wate	er, thei	r Constr	uction,	Riggin	g, and I	Propulsi	on ; Di	ving	
		Dresse	s, Life	Preser	vers	-	•	•	-	-	-	167
CLASS	8.	Mathema	tical, P	hilosop	hical an	d Opti	cal Inst	rument	, includ	ing Clo	юkв,	
			ometem		-	-	. •	-	-	-	•	183
CLASS	9.	Civil Eng	neerin	g and A	Architect	tuire, co	mp ri nin	g works	on Ra	il and C	om-	•
		mon F	loads, l	Bridges	, Canals	, Whar	ves, Do	cks, Ri	vers, W	iers, Da	ams,	
/					nproven					-	• •	. 191
(CLASS	10.	Land Co	nveyan	ce, com	prising	Cerriag	es, Car	s, and	other'V	ehicles :	used	
		on Ro	ada, an	d parts	thereof	•	-	-	. •	-	-	. 305
CLASS	11.	Hydrauli	cs and	Pneun	natics, i	ncludin	g Wate	r-wheel	s, Win	d-mills,	and	
		other !	Implem	ents op	erated o	n by A	ir or W	ater, or	emplo	yed in I	Rais-	
		•		ery of		•	-	•		. -	-	219
CLASS	12.	Lever, S						r, as a	pplied 1	to Pres	sing,	
					and Mo			-	-	-	-	239
CLASS	13.	Grinding	Mills	and I	Aill-gear	ing, co	ntaining	; Grain	Mills,	Mecha	mical	
			•		rse Pow		-	-	-	-	-	249
CLASS	14.	Lumber,		_				-			_	
				-	aning, l	Mortisi	ng, Shir	igle and	l Stave,	Carpen	i ters'	•
#			•	Imple		-	-	-	-	-	-	269
CLL	15.	Stone an	-			-	_					•
		makin	g, Bric	k-mak	ing, Dre	ssing a	nd Prep	aring S	tone, C	ements,	and	
り				g Mate		-	-	•	-	•	-	288
Cives	16.	Leather,	includi	ng Tanı	ning and	Dressi	ng, Ma	nufactu	re of B	oots, Si	noes,	
			ry, Ha		-	•	-	-	-	•	-	29:
Crree	17.	Househo					-					
4			-	ashing l	Machine	s, Brea	d and (Cracker	Machi	nes, Fe	ather	
		Dress	ing	-	-	-	-	-	-	-	-	307

CONTENTS.

iv

CLASS	18.	Arts-Polite, Fine	e, and Or	mament	al, inclu	ding M	lusic, Pa	inting.	Sculpt	ire.	Pag
		Engraving, Bo			•		•	-	-	_	32
CLASS	19.	Fire Arms, and In	•		•	parts t	hereof, i	includin	g the A	la-	
		nufacture of Sh				- ·	-	-	•	-	33
CLASS 2	20.										
		Bathing Appar		-	-	•	-	-	-	-	34
CLASS	21.	Wearing Apparel,	Articles	for the	Toilet,	&c., i1	cluding	Instru	ments	for	
		Manufacturing	•	-	-	-	-	-	-	-	349
CI ASS	22.	Miscellaneous	-	-	-	•	-	-	-	•	35
GENER	al I	NDEX	•	•	-	-	-	-	-	-	36

PATENT LAWS.

CONSTITUTION OF THE UNITED STATES,

ARTICLE 1st, SECTION 8th.

"The Congress shall have power, &c., to promote the pro-" gress of science and useful arts, by securing for limited times " to Authors and Inventors the exclusive right to their respec-"tive writings and discoveries." Also, "to make all laws "which shall be necessary and proper for carrying into execu-44 tion the foregoing powers."

CHAP. VII.—An Act to promote the progress of useful Arts.

SECTION 1. Be it enacted by the Senate and House of Representatives of the United States of America in Congress Representatives of the United States of America in Congress les, how applied assembled. That upon the petition of any person or persons to the Secretary of State, the Secretary for the department of war, and the Attorney General of the United States, setting forth, The Secretary and the Attorney General of the United States, setting forth, that he, she, or they, hath or have invented or discovered any useful art, manufacture, engine, machine, or device, or any improvement therein not before known or used, and praying in that a patent may be granted therefor, it shall and may be lawke, useful and known that a patent may be granted therefor, it shall and may be lawke, useful and ful to and for the said Secretary of State, the Secretary for the important, to cause letters patdepartment of war, and the Attorney General, or any two of ent to be issued. them, if they shall deem the invention or discovery sufficiently useful and important, to cause letters patent to be made out in the name of the United States, to bear teste by the President of the United States, reciting the allegations and suggestions of the said petition, and describing the said invention or discovery, clearly, truly, and fully, and thereupon granting to such petitioner or petitioners, his, her or their heirs, administrators or assigns for any term not exceeding fourteen years, the sole and exclusive right and liberty of making, constructing, using, and vending to others to be used, the said invention or discovery; which letters patent shall be delivered to the Attorney General of the United States to be examined, who shall, within fifteen days next after the delivery to him, if he shall find the same conformable to this act, certify it to be so at the foot thereof, and present the letters patent so certified to the President, who conformity of the shall cause the seal of the United States to be thereto affixed, patent with this and the same shall be good and available to the grantee or grantees by force of this act, to all and every intent and purpose herein contained, and shall be recorded in a book to be kept for that purpose in the office of the Secretary of State, and

Patents useful discover

of State, the Sec. of War, and the Attor. General, or

Patents to be

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delivered to the patentee or his agent, and the delivery thereof shall be entered on the record and endorsed on the patent by

the said Secretary at the time of granting the same.

Specification in writing, with draft, or model, thereof, to be delivered and filed in the office of the Secretary of

SEC. 2. And be it further enacted, That the grantee or grantees of each patent shall, at the time of granting the same, deliver to the Secretary of State a specification in writing, containing a description, accompanied with drafts or models, and explanations and models (if the nature of the invention or discovery will admit of a model) of the thing or things, by him or them invented or discovered, and described as aforesaid, in the said patents; which specification shall be so particular, and said models so exact, as not only to distinguish the invention or discovery from other things before known and used, but also to enable a workman or other person skilled in the art or manufacture, whereof it is a branch, or wherewith it may be nearest connected, to make, construct, or use the same, to the end that the public may have the full benefit thereof, after the expiration of the patent term; which specification shall be filed in the office of the said Secretary, and certified copies thereof, shall be competent evidence in all courts and before all jurisdictions, where any matter or thing, touching or concerning such patent, right, or privilege, shall come in question.

Certified copies in what cases to e evidence.

Copies of upe odels may be

Sec. 3. And be it further enacted, That upon the application of any person to the Secretary of State, for a copy of any such specification, and for permission to have similar model or models made, it shall be the duty of the Secretary to give such copy, and to permit the person so applying for a similar model or models, to take, or make, or cause the same to be taken or made, at the expense of such applicant.

Penalty for making, &c , any art, &c., for which a stent has been cranted.

SEC. 4. And be it further enacted, That if any person or persons shall devise, make, construct, use, employ, or vend within these United States, any art, manufacture, engine, machine or device, or any invention or improvement upon, or in any art, manufacture, engine, machine or device, the sole and exclusive right of which shall be so as aforesaid granted by patent to any person or persons, by virtue and in pursuance of this act, without the consent of the patentee or patentees, their executors, administrators or assigns, first had and obtained in writing, every person so offending, shall forfeit and pay to the said patentee or patentees, his, her or their executors, administrators or assigns, such damages as shall be assessed by a jury, and moreover shall forfeit to the person aggrieved, the thing or things so devised, made, constructed, used, employed or vended, contrary to the true intent of this act, which may be recovered in an action on the case founded on this act.

Damages to be sessed by a ju-

Sec. 5. And be it further enacted, That upon oath or affirmation made before the judge of the district court, where the defendant resides, that any patent which shall be issued in pursuance of this act, was obtained surreptitiously by, or upon false suggestion, and motion made to the said court, within one year after issuing the said patent, but not afterwards, it shall

Patents surrepditionaly obtained and may be lawful to and for the judge of the said district court, if the matter alleged shall appear to him to be sufficient, to grant a rule that the patentee or patentees, his, her, or their executors, administrators or assigns, show cause why process should not issue against him, her, or them, to repeal such patents; and if sufficient cause shall not be shown to the contrary, how to be repealthe rule shall be made absolute, and thereupon the said judge shall order process to be issued as aforesaid, against such patentee or patentees, his, her, or their executors, administrators, or assigns. And in case no sufficient cause shall be shown to the contrary, or if it shall appear that the patentee was not the first and true inventor or discoverer, judgment shall be rendered by such court for the repeal of such patent or patents; and if the party at whose complaint the process issued, shall have judgment given against him, he shall pay all such costs as the defendant shall be put to in defending the suit, to be taxed by the court, and recovered in such manner as costs expended by defendants, shall be recovered in due course of law.

SEC. 6. And be it further enacted, That in all actions to be brought by such patentee or patentees, his, her, or their executors, administrators or assigns, for any penalty incurred by virtue of this act, the said patents or specifications shall be prima facie evidence, that the said patentee or patentees was or were the first and true inventor or inventors, discoverer or discoverers what effect. of the thing so specified, and that the same is truly specified; but that nevertheless the defendant or defendants may plead the general issue, and give this act, and any special matter whereof notice in writing shall have been given to the plaintiff, or his attorney, thirty days before the trial, in evidence, tending to prove that the specification filed by the plaintiff does not contain the whole of the truth concerning his invention or discovery; or that it contains more than is necessary to produce the effect described; and if the concealment of part, or the addition of more than is necessary, shall appear to have been intended to mislead, or shall actually mislead the public, so as the effect described cannot be produced by the means specified, then, and in such cases, the verdict and judgment shall be for the defendant.

In actions for penalty, patents to be deemed to be deemed prima facie evi-dence of the first discovery; but special matter may be given in

Sec. 7. And be it further enacted, That such patentee as aforesaid, shall, before he receives his patent, pay the following fees to the several officers employed in making out and perfecting the same, to wit: For receiving and filing the petition, fifty cents; for filing specifications, per copy-sheet containing one hundred words, ten cents; for making out patent, two dollars; for affixing great seal, one dollar; for indorsing the day of delivering the same to the patentee, including all intermediate services, twenty cents.

Patent fees.

Approved April 10, 1790.

CHAP. IX.—An Mis to promote the progress of useful arts, and to repeal the act heretofore made for that purpose.

Act of 1790, chap. 7.

SECTION 1. Be it enacted by the Senatz and House of Representatives of the United States of America in Congress assembled, That when any person or persons, being a citizen or citizens of the United States, shall allege that he or they have invented any new and useful art, machine, manufacture or com-Letters patent, position of matter, or any new and useful improvement on any

how & by whom made out.

pealed.

art, machine, manufacture or composition of matter, not known Act of April 10, or exact before the application, and shall present a petition to the Secretary of State, signifying a desire of obtaining an exclusive property in the same, and praying that a patent may be granted therefor, it shall and may be lawful for the said Secretary of

by the President,

To bear teste State, to cause letters patent to be made out in the name of the United States, bearing teste by the President of the United States, reciting the allegations and suggestions of the said petition, and giving a short description of the said invention or discovery, and thereupon granting to such petitioner, or petition-

ers, his, her, or their heirs, administrators or assigns, for a term not exceeding fourteen years, the full and exclusive right and liberty of making, constructing, using, and vending to others to be used, the said invention or discovery, which letters patent

be examined by Attorney General.

shall be delivered to the Attorney General of the United States, to be examined; who, within fifteen days after such delivery, if he finds the same conformable to this act, shall certify accordingly, at the foot thereof, and return the same to the Secretary

of State, who shall present the letters patent thus certified, to be signed, and shall cause the seal of the United States to be thereto affixed: and the same shall be good and available to the grantee or grantees, by force of this act, and shall be re-

1800, ch. 25. corded in a book, to be kept for that purpose, in the office of the Secretary of State, and delivered to the patentee or his order. SEC. 2. Provided always, and be it further enacted, That

The liberty of using provement fined.

any person, who shall have discovered an improvement in the principle of any machine, or in the process of any composition of matter, which shall have been patented, and shall have obtained a patent for such improvement, he shall not be at liberty to make, use or vend the original discovery, nor shall the first inventor be at liberty to use the improvement: And it is hereby enacted and declared, that simply changing the form or the proportions of any machine, or composition of matter, in any degree, shall not be deemed a discovery.

Changing the form or propor-tions of any machine, &c., not to be a discovery.

How to proceed to obtain letters

1800,

Specification.

SEC. 3. And be it further enacted, That every inventor, before he can receive a patent, shall swear or affirm, that he does verily believe, that he is the true inventor or discoverer of the art, machine, or improvement, for which he solicits a patch. 25, ent, which oath or affirmation may be made before any person authorized to administer oaths, and shall deliver a written description of his invention, and of the manner of using, or process of compounding the same, in such full, clear, and exact terms, as to distinguish the same from all other things before

known, and to enable any person skilled in the art os science, of which it is a branch, or with which it is most nearly connected, to make, compound, and use the same. And in the case of any machine, he shall fully explain the principle, and the several modes in which he has contemplated the application of that principle or character, by which it may be distinguished. Specification. from other inventions; and he shall accompany the whole with drawings and written references, where the nature of the case. admits of drawings, or with specimens of the ingredients, and of the composition of matter, sufficient in quantity for the purpose of experiment, where the invention is of a composition of matter; which description, signed by himself and attested by two witnesses, shall be filed in the office of the Secretary of State, and certified copies thereof shall be computent evidence. in all courts, where any matter or thing, touching such patent right, shall come in question. And such inventor shall, moreover, deliver a model of his machine, provided, the secretary shall deem such model to be necessary.

SEC. 4. And be it further enacted, That it shall be lawful for any inventor, his executor or administrator, to assign the title and interest in the said invention, at any time, and the assignee having recorded the said assignment in the office of Record of as-the Secretary of State, shall thereafter stand in the place of the made in the office original inventor, both as to right and responsibility, and so the of the Secretary

assignee of assigns, to any degree.

SEC. 5. And be it further enacted, That if any person shall make, devise, and use, or sell the thing so invented, the exclusive right of which shall, as aforesaid, have been secured to out leave. any person by patent, without the consent of the patentee, his executors, administrators, or assigns, first obtained in writing, every person so offending, shall forfest and pay to the patentee a sum, that shall be at least equal to three times the price, for which the patentee has usually sold or licensed to other persons, the use of the said invention; which may be recovered in How recovered. an action on the case founded on this act, in the circuit court of the United States, or any other court having competent jurisdiction.

Sec. 6. Provided always, and be it further enacted, That How defendthe defendant in such action shall be permitted to plead the this act in evigeneral issue, and give this act and any special matter, of which dence. notice in writing may have been given to the plaintiff, or bis attorney, thirty days before trial, in evidence, tending to prove that the specification, filed by the plaintiff, does not contain the whole truth relative to his discovery, or that it contains more than is necessary to produce the described effect, which concealment or addition shall fully appear to have been made, for the purpose of deceiving the public, or that the thing, thus secured by petent. was not originally discovered by the patentee, but had been in use, or had been described in some public work anterior to the supposed discovery of the patentee, or that he had surreptitiously obtained a patent for the discovery of

Forfeiture on

Three times the



shall be given.

And judgment another person: in either of which cases, judgment shall be rendered for the defendant, with costs, and the patent shall be declared void.

State rights to inventions when void.

Sec. 7. And be it further enacted, That where any State, to be deemed before its adoption of the present form of government, shall have granted an exclusive right to any invention, the party, claiming that right, shall not be capable of obtaining an exclusive right under this act, but on relinquishing his right under such particular State, and of such relinquishment, his obtaining an exclusive right under this act shall be sufficient evidence.

1790, ch. 7.

How applications, depending applications for patents, were, at the time of passing this act, SEC. 8. And be it further enacted, That the persons, whose shall be proceed depending before the Secretary of State, Secretary at War, and Attorney General, according to the act, passed the second session of the first Congress, intituled "An act to promote the progress of useful arts," on complying with the conditions of this act, and paying the fees herein required, may pursue their respective claims to a patent under the same.

Proceedings to be had on inter-fering applica-

tions.

SEC. 9. And be it further enacted, That in case of interferapplications, the same shall be submitted to the arbitration of three persons, one of whom shall be chosen by each of the applicants, and the third person shall be appointed by the Secretary of State; and the decision or award of such arbitrators, delivered to the Secretary of State in writing, and subscribed by them, or any two of them, shall be final, as far as respects the granting of the patent: And if either of the applicants shall refuse or fail to chuse an arbitrator, the patent shall issue to the opposite party. And where there shall be more than two interfering applications, and the parties applying shall not all unite in appointing three arbitrators, it shall be in the power of the Secretary of State to appoint three arbitrators for the purpose.

And against persons surrepti-tiously obtaining patents.

SEC. 10. And be it further enacted, That upon oath or affirmation being made before the judge of the district court, where the patentee, his executors, administrators, or assigns reside, that any patent, which shall be issued in pursuance of this act, was obtained surreptitiously, or upon false suggestion, and motion made to the said court, within three years after issuing the said patent, but not afterwards, it shall and may be lawful for the judge of the said district court, if the matter alleged shall appear to him to be sufficient, to grant a rule, that the patentee, or his executor, administrator, or assign show cause why process should not issue against him to repeal such patent. sufficient cause shall not be shown to the contrary, the rule shall be made absolute, and thereupon the said judge shall order process to be issued against such patentee, or his executors, administrators, or assigns, with costs of suit. And in case no sufficient cause shall be shown to the contrary, or if it shall appear that the patentee was not the true inventor or discoverer, judgment shall be rendered by such court for the repeal of such patent; and if the party, at whose complaint the process issued,

seal of a patent illegally obshall have judgment given against him, he shall pay all such costs as the defendant shall be put to in defending the suit, to be taxed by the court, and recovered in due course of law.

SEC. 11. And be it further enacted, That every inventor, before he presents his petition to the Secretary of State, signifying his desire of obtaining a patent, shall pay into the treasury thirty dollars, for which he shall take duplicate receipts; one of which receipts he shall deliver to the Secretary of State, when he presents his petition; and the money, thus paid, shall be in full for the sundry services to be performed in the office of the Secretary of State, consequent on such petition, and shall pass to the account of clerk-hire in that office. Provided nevertheless, That for every copy, which may be required at the said office, of any paper respecting any patent that has been granted, the person, obtaining such copy, shall pay, at the rate of twenty cents, for every copy-sheet of one hundred words, and for every copy of a drawing, the party obtaining the same, shall pay two dollars; of which payments, an account shall be rendered, annually, to the treasury of the United States, and they shall also pass to the account of clerk-hire in the office of the Secretary of State.

the tenth day of April, in the year one thousand seven hundred pealed. Act of April 10, 1790, ch. 7, reand ninety, intituled "An act to promote the act to promote the act. and ninety, intituled "An act to promote the progress of useful arts," be, and the same is hereby repealed. Provided always, That nothing, contained in this act, shall be construed to invalidate any patent that may have been granted under the authority of the said act; and all patentees under the said act, their executors, administrators, and assigns, shall be considered within the purview of this act, in respect to the violation of their rights; provided, such violations shall be committed after the passing of this act.

Approved February 21, 1793.

CHAP. LVIII.—An Act supplementary to the act, intituled "An Act to promote the progress of Useful Arts."

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That revived. all suits, actions, process and proceedings, heretofore had in any district court of the United States, under an act passed the any district court of the United States, under an act passed the Act of Feb. 21, tenth day of April, in the year one thousand seven hundred 1793, ch. 11.

Act of April 10, Act and ninety, intituled "An Act to promote the progress of useful 1790, ch. 7. arts," which may have been set aside, suspended or abated, by reason of the repeal of the said act, may be restored, at the instance of the plaintiff or defendant, within one year from and after the passing of this act, in the said courts, to the same situation, in which they may have been, when they were so set aside, suspended or abated; and that the parties to the said saits, actions, process or proceedings, be, and are hereby inti-

Inventor before presenting peti-tion to pay \$30 into the treasury.

Copying fees.

(Obsolete.)

Suits, &c., had under certain act,



In what manner.

tled to proceed in such cases, as if no such repeal of the act aforesaid had taken place. Provided always, That before any order or proceeding, other than that for continuing the same suits, after the reinstating thereof, shall be entered or had, the defendant or plaintiff, as the case may be, against whom the same may have been reinstated, shall be brought into court by summons, attachment, or such other proceeding, as is used in other cases for compelling the appearance of a party.

Approved June 7, 1794.

(Repeale d.)

CHAP. XXV.—An Act to extend the privilege of obtaining patents for useful discoveries and inventions, to certain persons therein mentioned, and to enlarge and define the penalties for violating the rights of patentees.

Aliens having resided two years within the United States entitled to

Act of Feb. 21, 1793, ch. 11.

Oath to be takm by such resident, that the inery hath not been

The legal representatives of a deceased inventor may obtain a patent.

Section 1. Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That all and singular the rights and privileges given, the benefit of the intended or provided to citizens of the United States, respecting patents for new inventions, discoveries, and improvements, by the act, intituled "An act to promote the progress of useful arts, and to repeal the act heretofore made for that purpose," shall be, and hereby are extended and given to all aliens who at the time of petitioning in the manner prescribed by the said act, shall have resided for two years within the United States, which privileges shall be obtained, used, and enjoyed, by such persons, in as full and ample manner, and under the same conditions, limitations and restrictions, as by the said act is provided and directed in the case of citizens of the United States. vided ulways, That every person petitioning for a patent for any invention, art or discovery, pursuant to this act, shall make oath or affirmation before some person duly authorized to administer oaths before such patent shall be granted, that such invention, art or discovery hath not, to the best of his or her knowledge or belief, been known or used either in this or any foreign country, and that every patent which shall be obtained pursuant to this act, for any invention, art or discovery, which it shall afterwards appear had been known or used previous to such application for a patent, shall be utterly void.

Sec. 2. And be it further enacted, That where any person hath made, or shall have made, any new invention, discovery or improvement, on account of which a patent might, by virtue of this or the above mentioned act, be granted to such person, and shall die before any patent shall be granted therefor, the right of applying for and obtaining such patent, shall devolve on the legal representatives of such person in trust for the heirs at law of the deceased, in case he shall have died intestate; but if otherwise, then in trust for his devisees, in as full and ample manner, and under the same conditions, limitations and restrictions, as the same was held or might have been claimed or enjoyed by such person, in his or her lifetime; and when application for a patent shall be made by such legal representatives, the oath or affirmation, provided in the third section of the before-mentioned act, shall be so varied as to be applicable to them.

SEC. 3. And be it further enacted, That where any patent Damages for the breach of patent shall be, or shall have been granted pursuant to this or the breac above-mentioned act, and any person without the consent of the patentee, his or her executors, administrators or assigns first obtained in writing, shall make, devise, use, or sell the thing whereof the exclusive right is secured to the said patentee by. such patent, such person so offending, shall forfeit and pay to the said patentee, his executors, administrators or assigns, a sum equal to three times the actual damage sustained by such patentee, his executors, administrators, or assigns, from or by reason of such offence, which sum shall and may be recovered, by action on the case founded on this and the above-mentioned by action on act, in the circuit court of the United States, having jurisdictice the case in the circuit court. tion thereof.

SEC. 4. And be it further enacted, That the fifth section of Repeal of part the above-mentioned act, intituled "An act to promote the pro-Act of Feb. 21, process of useful acts, and to repeal the act heretofore, made for 1793, ch 11. gress of useful arts, and to repeal the act heretofore made for that purpose," shall be, and hereby is repealed.

Approved, April 17, 1800.

CHAP. XIX .- An Act to extend the jurisdiction of the circuit courts of the United States to cases arising under the law relating to patents.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That courts to have the circuit courts of the United States shall have original cognisance, as well in equity as at law, of all actions, suits, controversies, and cases, arising under any law of the transfer of troversies, and cases, arising under any law of the United States, to inventions and granting or confirming to authors or inventors the exclusive writings.

Act of Peb. 31, right to their respective writings, inventions, and discoveries: 1783, ch. 11. and upon any bill in equity, filed by any party aggrieved in 1790, ch. 15. any such cases, shall have authority to grant injunctions, according to the course and principles of courts of equity, to prevent the violation of the rights of any authors or inventors, secured to them by any laws of the United States, on such terms and conditions as the said courts may deem fit and reasonable: Provided, however, That from all judgments and decrees of any circuit courts, rendered in the premises, a writ of error or appeal, as the case may require, shall lie to the Supreme Court of the United States, in the same manner, and under the same circumstances, as is now provided by law in other judgments and decrees of such circuit courts.

Proviso.

Approved, February 15, 1819.

CHAP. CLXII.—An Act concerning patents for useful inventions.

Act of July 4, 1836, ch. 357.

List of expired patents to be annually reported to Congress.

Form of application to prolong or renew patent.

Be it enacted in the Senate and House of Representatives of the United States of America in Congress assembled, That it shall be the duty of the Secretary of State, annually, in the month of January, to report to Congress, and to publish in two of the newspapers printed in the city of Washington, a list of all the patents for discoveries, inventions, and improvements, which shall have expired within the year immediately preceding, with the names of the patentees, alphabetically arranged.

SEC. 2. And be it further enacted, That application to Congress to prolong or renew the term of a patent, shall be made before its expiration, and shall be notified at least once a month, for three months before its presentation, in two newspapers printed in the city of Washington, and in one of the newspapers in which the laws of the United States shall be published in the State or territory in which the patentee shall reside. The petition shall set forth particularly the grounds of the application. It shall be verified by oath; the evidence in its support may be taken before any judge or justice of the peace; it shall be accompanied by a statement of the ascertained value of the discovery, invention, or improvement, and of the receipts and expenditures of the patentee, so as to exhibit the profit or loss arising therefrom.

Patent to be invalid in case of inventor not having complied with terms, &c.

1793, ch. 11.

Secretary of State, upon surrender, &c., to grant a new pa-

In case of death, &c., right to vest in executors, &c.

Proviso.

SEC. 3. And be it further enacted, That wherever any patent which has been heretofore, or shall be hereafter, granted to any inventor in pursuance of the act of Congress, entitled "An act to promote the progress of useful arts, and to repeal the act heretofore made for that purpose," passed on the twenty-first day of February, in the year of our Lord, one thousand seven hundred and ninety-three, or of any of the acts supplementary thereto, shall be invalid or inoperative, by reason that any of the terms or conditions prescribed in the third section of the said first mentioned act, have not, by inadvertence, accident, or mistake, and without any fraudulent or deceptive intention, been complied with on the part of the said inventor, it shall be lawful for the Secretary of State, upon the surrender to him of such patent, to cause a new patent to be granted to the said inventor for the same invention for the residue of the period then unexpired, for which the original patent was granted, upon his compliance with the terms and conditions prescribed in the said third section of the said act. And, in case of his death, or any assignment by him made of the same patent, the like right shall vest in his executors and administrators, or assignee or assignees: Provided, however, That such new patent, so granted, shall, in all respects, be liable to the same matters of objection and defence as any original patent granted under the said first-mentioned act. But no public use or privilege of the invention so patented, derived from or after the grant of the original patent, either under any special license of the inventor, or without the consent of the patentee that there shall be a free public use thereof, shall, in any manner, prejudice

his right of recovery for any use or violation of his invention after the grant of such new patent as aforesaid.

Approved, July 3, 1832.

CHAP. CCIII.—An Act concerning the issuing of patents to aliens, for useful discoveries and inventions.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That granted to allens the privileges granted to the aliens described in the first section of the act, to extend the privilege of obtaining patents for useful discoveries and inventions to certain persons therein men1800, ch. 35. tioned, and to enlarge and define the penalties for violating the rights of patentees, approved April seventeenth, eighteen hundred, be extended, in like manner, to every alien, who, at the time of petitioning for a patent, shall be resident in the United States, and shall have declared his intention. according to law, to become a citzen thereof: Provided, That every patent granted by virtue of this act and the privileges thereto appertaining, shall cease and determine and become absolutely void without resort to any legal process to annul or cancel the same in case of a failure on the part of any patentee, for the space of one year from the issuing thereof, to introduce into public use in the United States the invention or improvement for which the patent shall be issued; or in case the same for any period of six months after such introduction shall not continue to be publicly used and applied in the United States, or in case of failure to become a citizen of the United States, agreeably to notice given at the earliest period within which he shall be entitled to become a citizen of the United States.

Approved, July 13, 1832.

CHAP. CCCLVII.—An Act to promote the progress of the useful arts, and to repeal all acts and parts of acts heretofore made for that purpose.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be established and attached to the Department of State an office to be denominated the Patent Office, the chief officer of which shall be called the Commissioner of Patents, to be appointed by the President, by and with the advice and annointed. consent of the Senate, whose duty it shall be, under the direction of the Senate and sen tion of the Secretary of State, to superintend, execute, and per-ch. 363. form all such acts and things touching and respecting the granting and issuing of patents for new and useful discoveries, inventions, and improvements, as are herein provided for, or shall hereafter be, by law, directed to be done and performed, and shall have the charge and custody of all the books, records, papers, models, machines, and all other things belonging to And said Commissioner shall receive the same consponention as is allowed by law to the Commissioner of the

Proviso.

March 3, 1837, ch. 43.

Commissioner



Indian department, and shall be entitled to send and reseive letters and packages by mail, relating to the business of the office, free of postage.

Chief clerk.

SEC. 2. And be it further enacted, That there shall be in said office an inferior officer, to be appointed by the said principal officer, with the approval of the Secretary of State, to receive an annual salary of seventeen hundred dollars, and to be called the Chief Clerk of the Patent Office, who, in all cases during the necessary absence of the Commissioner, or when the said principal office shall become vacant, shall have the charge and custody of the seal, and of the records, books, papers, machines, models, and all other things belonging to the said office, and shall perform the duties of Commissioner during such vacancy. And the said Commissioner may also, with like approval, appoint an examining clerk, at an annual salary of fifteen hundred dollars; two other clerks, at twelve hundred dollars each, one of whom shall be a competent draughtsman; one other clerk, at one thousand dollars; a machinist, at twelve hundred and fifty dollars; and a messenger, at seven hundred dollars. And said commissioner, clerks, and every other person appointed and employed in said office, shall be disqualified and interdicted from acquiring or taking, except by inheritance, during the period for which they shall hold their appointments; respectively, any right or interest, directly or indirectly, in any patent for an invention or discovery which has been, or may hereafter be, granted.

Officers to make

eath, &c.

Examining clerk, and other officers.

SEC. 3. And be it further enacted, That the said principal officer, and every other person to be appointed in the said office, shall, before he enters upon the duties of his office or appoint. ment, make oath or affirmation truly and faithfully to execute the trust committed to him. And the said Commissioner and the Chief Clerk shall also, before entering upon their duties, severally give bonds, with sureties, to the Treasurer of the United States, the former in the sum of ten thousand dollars, and: the latter in the sum of five thousand dollars, with condition to render a true and faithful account to him or his successor in office, quarterly, of all moneys which shall be by them respectively received for duties on patents, and for copies of records and drawings, and all other moneys received by virtue of said office.

A seal to be provided.

SEC. 4. And be it further enacted, That the said Commissioner shall cause a seal to be made and provided for the said. office, with such device as the President of the United States: shall approve; and copies of any records, books, papers, or drawings, belonging to the said office, under the signature of the said Commissioner, or, when the office shall be vacant, under the signature of the Chief Clerk, with the said seal affixed, shall be competent evidence in all cases in which the original. records, books, papers, or drawings could be evidence. any person making application therefor may have certified copies of the records, drawings, and other papers deposited in said

office, on payiting, for the written copies, the sum of ten cents for every page of one hundred words; and for copies of draw-

ings, the reasonable expense of making the same.

SEC. 5. And be it further enacted, That all patents issued from said office shall be issued in the name of the United States, retary of siete, and under the seal of said office, and be signed by the Secretary of siete, and under the seal of said office, and be signed by the Secretary of State, and countersigned by the Commissioner of the said office, and shall be recorded, together with the descriptions, specifications, and drawings, in the said office, in books to be kept for that purpose. Every such patent shall contain a short description or title of the invention or discovery, correctly indicating its nature and design, and in its terms grant to the applicant or applicants, his or their heirs, administrators, executors, or assigns, for a term not exceeding fourteen years, the full and exclusive right and liberty of making, using, and vending to others to be used, the said invention or discovery, referring to the specifications for the particulars thereof, a copy of which shall be annexed to the patent, specifying what the patentee claims as his invention or discovery.

Sec. 6. And be it further enacted, That any person or per-

sons having discovered or invented any new and useful art, machine, manufacture, or composition of matter, or any new and useful improvements on any art, machine, manufacture, or composition of matter, not known or used by others before his or their discovery or invention thereof, and not, at the time of his application for a patent, in public use or on sale, with his consent or allowance, as the inventor or discoverer, and shall desire to obtain an exclusive property therein, may make application, in writing, to the Commissioner of Patents, expressing such desire, and the Commissioner, on due proceedings had, may grant a patent therefor. But before any inventor shall receive a patent for any such new inven--tion or discovery, he shall deliver a written description of his invention or discovery, and of the manner and process of making, constructing, using, and compounding the same, in such full, clear, and exact terms, avoiding unnecessary prolixity, as to enable any person skilled in the art or science to which it appertains, or with which it is most nearly connected, to make, construct, compound, and use the same; and in case of any machine, he shall fully explain the principle, and the several modes in which he has contemplated the application of that principle or character by which it may be distinguished from other inventions; and shall particularly specify and point out the part, improvement, or combination, which he claims as his own invention or discovery. He shall, furthermore, accompany the whole with a drawing or drawings, and written references, where the nature of the case admits of drawings; or

with specimens of ingredients, and of the composition of matter, sufficient in quantity for the purpose of experiment, where the invention or discovery is of a composition of matter; which descriptions and drawings, signed by the inventor, and attested

Patents to be missioner.

Applications,

Specification.

Drawings, &c

Models.

Oath or affirm

by two witnesses, shall be filed in the Patent Office; and he shall, moreover, furnish a model of his invention, in all cases which admit of a representation by model, of a convenient size to exhibit advantageously its several parts. The applicant shall also make cath, or affirmation, that he does verily believe that he is the original and first inventor or discoverer of the art, machine, composition, or improvement, for which he solicits a patent, and that he does not know or believe that the same was ever before known or used; and also of what country he is a citizen; which oath or affirmation may be made before any parson authorized by law to administer oaths.

Examination of invention to be made, and proceedings thereon, should it not be deemed naw.

SEC. 7. And be it further enacted, That on the filing of any such application, description, and specification, and the payment of the duty hereinaster provided, the Commissioner shall make, or cause to be made, an examination of the alleged new invention or discovery; and if, on any such examination, it shall not appear to the Commissioner that the same had been invented or discovered by any other person in this country, prior to the alleged invention or discovery thereof by the applicant, or that it had been patented or described in any printed publication in this or any foreign country, or had been in public use or on sale, with the applicant's consent or allowance, prior to the application, if the Commissioner shall deem it to be sufficiently useful and important, it shall be his duty to issue a patent therefor. But whenever, on such examination, it shall appear to the Commissioner that the applicant was not the original and first inventor or discoverer thereof, or that any part of that which is claimed as new had before been invented or discovered, or patented, or described in any printed publication in this or any foreign country as aforesaid, or that the description is defective and insufficient, he shall notify the applicant thereof, giving him briefly such information and references as may be useful in judging of the propriety of renewing his application, or of altering his specification to embrace only that part of the invention or discovery which is new. In every such case, if the applicant shall elect to withdraw his application, relinquishing his claim to the model, he shall be entitled to receive back twenty dollars, part of the duty required by this act. on filing a notice in writing of such election in the Patent Office, a copy of which, certified by the Commissioner, shall be a sufficient warrant to the Treasurer for paying back to the said applicant the said sum of twenty dollars. But if the applicant, in such case, shall persist in his claim for a patent, with or without any alteration of his specification, he shall be required to make oath or affirmation anew, in manner as aforesaid; and if the specification and claim shall not have been so modified as, in the opinion of the Commissioner, shall entitle the applicant to a patent, he may, on appeal, and upon request in writing, have the decision of a board of examiners, to be composed of three disinterested persons, who shall be appointed for that purpose by the Secretary of State, one of whom, at least, to be selected, if practicable and convenient, for his knowledge and

skill in the particular art, manufacture, or branch of science to which the alleged invention appertains; who shall be under oath or affirmation for the faithful and impartial performance of the duty imposed upon them by said appointment. Said board shall be furnished with a certificate in writing of the opinion and decision of the Commissioner, stating the particular grounds of his objection, and the part or parts of the invention which he considers as not entitled to be patented. the said board shall give reasonable notice to the applicant, as well as to the Commissioner, of the time and place of their meeting, that they may have an opportunity of furnishing them with such facts and evidence as they may deem necessary to a just decision; and it shall be the duty of the Commissioner to furnish to the board of examiners such information as he may possess relative to the matter under their consideration. on an examination and consideration of the matter by such board, it shall be in their power, or of a majority of them, to reverse the decision of the Commissioner, either in whole or in part; and their opinion being certified to the Commissioner, he shall be governed thereby in the further proceedings to be had on such application: Provided, however, That, before a board shall be instituted in any such case, the applicant shall pay to the credit of the Treasury, as provided in the ninth section of this act, the sum of twenty-five dollars, and each of said persons so appointed shall be entitled to receive for his services in each case a sum not exceeding ten dollars, to be determined and paid by the Commissioner out of any moneys in his hands. which shall be in full compensation to the persons who may be so appointed, for their examination and certificate as aforesaid.

SEC. 8. And be it further enacted, That whenever an application shall be made for a patent which, in the opinion of the Commissioner, would interfere with any other patent for which an application may be pending, or with any unexpired patent which shall have been granted, it shall be the duty of the Commissioner to give notice thereof to such applicants, or patentees, as the case may be; and if either shall be dissatisfied with the decision of the Commissioner on the question of priority of right or invention, on a hearing thereof, he may appeal from such decision, on the like terms and conditions as are provided in the preceding section of this act; and the like proceedings shall be had, to determine which or whether either of the applicants is entitled to receive a patent as prayed for. But nothing in this act contained shall be construed to deprive an original and true inventor of the right to a patent for his invention, by reason of his having previously taken out letters patent therefor in a foreign country, and the same having been published, at any time within six months next preceding the filing of his specification and drawings. And whenever the applicant shall request it, the patent shall take date from the time of the filing of the specification and drawings, not however exceeding six months prior to the actual issuing of the patent;

, :

Provise.

Interfering ap-



and on like request, and the payment of the duty herein required, by any applicant, his specification and drawings shall be filed in the secret archives of the office until he shall furnish the model and the patent be issued, not exceeding the term of one year, the applicant being entitled to notice of interfering applications.

Thirty dollars to be paid to the credit of the U.S. Treasurer by a citizen, or, &c.

SEC. 9. And be it further enacted, That before any application for a patent shall be considered by the Commissioner as aforesaid, the applicant shall pay into the Treasury of the United States, or into the Patent Office, or into any of the deposite banks to the credit of the Treasury, if he be a citizen of the United States, or an alien, and shall have been resident in the United States for one year next preceding, and shall have made oath of his intention to become a citizen thereof, the sum of thirty dollars; if a subject of the King of Great Five hundred Britain, the sum of five hundred dollars; and all other persons dollars by a sub-ject of Great Brit- the sum of three hundred dollars; for which payment duplicate ain, and three receipts shall be taken, one of which to be filed in the office of the Treasurer. And the moneys received into the Treasury under this act shall constitute a fund for the payment of the salaries of the officers and clerks herein provided for, and all other expenses of the Patent Office, and to be called the Patent

persons.

Inventors dying without taking a

Sec. 10. And be it further enacted, That where any person hath made, or shall have made; any new invention, discovcutors, &c., may, ery, or improvement, on account of which a patent might by ritue of this act be granted, and such person shall die before any patent shall be granted therefor, the right of applying for and obtaining such patent shall devolve on the executor or administrator of such person, in trust for the heirs-at-law of the deceased, in case he shall have died intestate; but if otherwise, then in trust for his devisees, in as full and ample manner, and under the same conditions, limitations, and restrictions, as the same was held, or might have been claimed or enjoyed by such person in his or her lifetime; and when application for a patent shall be made by such legal representatives, the oath or affirmation provided in the 6th section of this act shall be so varied as to be applicable to them.

Assignment of a patent, and re-

SEC. 11. And be it further enacted, That every patent shall be assignable in law, either as to the whole interest, or any undivided part thereof, by any instrument in writing; which assignment, and also every grant and conveyance of the exclusive right under any patent, to make and use, and to grant to others to make and use, the thing patented within and throughout any specified part or portion of the United States, shall be recorded in the Patent Office within three months from the execution thereof, for which the assignee or grantee shall pay to the Commissioner the sum of three dollars.

Caveat may be

SEC. 12. And be it further enacted, That any citizen of the United States, or alien, who shall have been resident in the United States one year next preceding, and shall have

made oath of his intention to become a citizen thereof, who shall have invented any new art, machine, or insprovement thereof, and shall desire further time to mature the same, may, on paying to the credit of the Treasury, in manner as provided in the ninth section of this act, the sum of twenty dollars, file in the Patent Office a caveat, setting forth the design and purpose thereof, and its principal and distinguishing characteristics, and praying protection of his right till he shall have matured his invention; which sum of twenty dollars, in case the person filing such caveat shall afterwards take out a patent for the invention therein mentioned, shall be considered a part of the sum herein required for the same. And such caveat shall be filed in the confidential archives of the office, and preserved in secrecy. And if application shall be made by any other person, within one year from the time of filing such caveat, for a patent of any invention with which it may in any respect interfere, it shall be the duty of the Commissioner to deposite the description, specifications, drawings, and model, in the confidential archives of the office, and to give notice (by mail) to the person filing the caveat, of such application, who shall, within three months after receiving the notice, if he would avail himself of the benefit of his caveat, file his description, specifications, drawings, and model; and if, in the opinion of the Commissioner, the specifications of claim interfere with each other, like proceedings may be had in all respects as are in this act provided in the case of interfering applications. Provided, however, That no opinion or decision of any board of examiners, under the provisions of this act, shall preclude any person interested in favor of or against the validity of any patent which has been or may hereafter be granted, from the right to contest the same in any judicial court, in any action in which its validity may come in question.

SEC. 13. And be it further enacted, That whenever any patent which has heretofore been granted, or which shall specifications hereafter be granted, shall be inoperative, or invalid, by dered, and new reason of a defective or insufficient description or specification, or by reason of the patentee claiming in his specifica. tion as his own invention, more than he had or shall have a right to claim as new; if the error has, or shall have arisen by inadvertency, accident, or mistake, and without any fraudulent or deceptive intention, it shall be lawful for the Commissioner, upon the surrender to him of such patent, and the payment of the further duty of fifteen dollars, to cause a new patent to be issued to the said inventor, for the same invention, for the residue of the period then unexpired for which. the original patent was granted, in accordance with the patentee's corrected description and specification. And in case of his death, or any assignment by him made of the original patent, a similar right shall vest in his executors, administrators, or assignees. And the patent, so re-issued, together with the corrected description and specification, shall have the same of-



Patentee may make additions to his patent.

fect and operation in law, on the trial of all actions hereafter commenced for causes subsequently accruing, as though the same had been originally filed in such corrected form, before the issuing out of the original patent. And whenever the original patentee shall be-desirous of adding the description and specification of any new improvement of the original invention or discovery, which shall have been invented or discovered by him subsequent to the date of his patent, he may, like proceedings being had in all respects as in the case of original applications, and on the payment of fifteen dollars, as hereinbefore provided, have the same annexed to the original description and specification; and the Commissioner shall certify, on the margin of such annexed description and specification, the time of its being annexed and recorded; and the same shall thereafter have the same effect in law, to all intents and purposes, as though it had been embraced in the original description and specification.

Couris may render judgment for a sum not exceeding three times the amount of actual damages.

SEC. 14. And be it further enacted, That whenever, in any action for damages for making, using, or selling the thing whereof the exclusive right is secured by any patent heretofore granted, or by any patent which may hereafter be granted, a verdict shall be rendered for the plaintiff in such action, it shall be in the power of the court to render judgment for any sum above the amount found by such verdict as the actual damages sustained by the plaintiff, not exceeding three times the amount thereof, according to the circumstances of the case, with costs; and such damages may be recovered by action on the case, in any court of competent jurisdiction, to be brought in the name or names of the person or persons interested, whether as patentees, assignees, or as grantees of the exclusive right within and throughout a specified part of the United States.

Defendant may plead the general

SEC. 15. And be it further enacted. That the defendant in any such action shall be permitted to plead the general issue, and to give this act and any special matter in evidence, of which notice in writing may have been given to the plaintiff or his attorney, thirty days before trial, tending to prove that the description and specification filed by plaintiff, does not contain the whole truth relative to his invention or discovery, or that it contains more than is necessary to produce the described effect; which concealment or addition shall fully appear to have been made for the purpose of deceiving the public, or that the patentee was not the original and first inventor or discoverer of the thing patented, or of a substantial and material part thereof claimed as new, or that it had been described in some public work anterior to the supposed discovery thereof by the patentee, or had been in public use or on sale with the consent and allowance of the patentee before his application for a patent, or that he had surreptitiously or unjustly obtained the patent for that which was in fact invented or discovered by another, who was using reasonable dilugence in adapting and perfecting the same; or that the patentee, if an alien at the time the

patent was granted, had failed and neglected, for the space of eighteen months from the date of the patent, to put and continue on sale to the public, on reasonable terms, the invention or discovery for which the patent issued; in either of which cases, judgment shall be rendered for the defendant, with costs. And whenever the defendant relies in his defence on the fact of a previous invention, knowledge, or use of the thing patented, he shall state, in his notice of special matter, the names and places of residence of those whom he intends to prove to have possessed a prior knowledge of the thing, and where the same had been used: Provided, however, That whenever it shall satisfactorily appear that the patentee, at the time of making his application for the patent, believed himself to be the first inventor or discoverer of the thing patented, the same shall not be held to be void on account of the invention or discovery or any part thereof having been before known or used in any foreign country, it not appearing that the same or a substantial part thereof had before been patented or described in any printed publication: And provided, also, That whenever the plaintiff shall fail to sustain his action on the ground that in his specification of claim is embraced more than that of which he was the first inventor, if it shall appear that the defendant had used or violated any part of the invention justly and truly specified and claimed as new, it shall be in the power of the court to adjudge and award, as to costs, as may appear to be just and equitable.

SEC. 16. And be it further enacted, That whenever there ents, &c. shall be two interfering patents, or whenever a patent on application shall have been refused on an adverse decision of a board of examiners, on the ground that the patent applied for would interfere with an unexpired patent previously granted, any person interested in any such patent, either by assignment or otherwise, in the one case, and any such applicant in the other case, may have remedy by bill in equity; and the court having cognizance thereof, on notice to adverse parties and other due proceedings had, may adjudge and declare either the patents void in the whole or in part, or inoperative and invalid in any particular part or portion of the United States, according to the interest which the parties to such suit may possess in the patent or the inventions patented, and may also adjudge that such applicant is entitled, according to the principles and provisions of this act, to have and receive a patent for his invention, as specified in his claim, or for any part thereof, as the fact of priority of right or invention shall in any such case be made to appear. And such adjudication, if it be in favor of the right of such applicant, shall authorize the Commissioner to issue such patent, on his filing a copy of the adjudication, and otherwise complying with the requisitions of this act: Provided, however, That no such judgment or adjudication shall affect the rights of any person, except the parties to the action, and those deriving title from or under them subsequent to the rendition of such judgment.

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Interfering po

Actions cagnisable in circuit courts of United States, &c.

SEC. 17. And be it further enacted, That all actions, suits, controversies, and cases arising under any law of the United States, granting or confirming to inventors the exclusive right to their inventions or discoveries, shall be originally cognizable, as well in equity as at law, by the circuit courts of the United States, or any district court having the powers and jurisdiction of a circuit court; which courts shall have power, upon bill in equity filed by any party aggrieved, in any such case, to grant injunctions, according to the course and principles of courts of equity, to prevent the violation of the rights of any inventor as secured to him by any law of the United States, on such terms and conditions as said courts may deem reasonable: Provided, however, 'I'hat from all judgments and decrees, from any such court rendered in the premises, a writ of error or appeal, as the case may require, shall lie to the Supreme Court of the United States, in the same manner and under the same circumstances as is now provided by law in other judgments and decrees of circuit courts, and in all other cases in which

Proviso,

Patents may be extended seven years in certain

the court shall deem it reasonable to allow the same. SEC. 18. And be it further enacted, That whenever any patentee of an invention or discovery shall desire an extension of his patent beyond the term of its limitation, he may make application therefor, in writing, to the Commissioner of the Patent Office, setting forth the grounds thereof; and the Commissioner shall, on the applicant's paying the sum of forty dollars to the credit of the Treasury, as in the case of an original application for a patent, cause to be published, in one or more of the principal newspapers in the city of Washington, and in such other paper or papers as he may deem proper, published in the section of country most interested adversely to the extension of the patent, a notice of such application and of the time and place when and where the same will be considered, that any person may appear and show cause why the extension should not be granted. And the Secretary of State, the Commissioner of the Patent Office, and the Solicitor of the Treasury, shall constitute a board to hear and decide upon the evidence produced before them both for and against the extension, and shall sit for that purpose at the time and place designated in the published notice thereof. The patentee shall furnish to said board a statement, in writing, under oath, of the ascertained value of the invention, and of his receipts and expenditures, sufficiently in detail to exhibit a true and faithful account of loss and profit in any manner accruing to him from and by reason of said invention. And if, upon a hearing of the matter, it shall appear to the full and entire satisfaction of said board, having due regard to the public interest therein, that it is just and proper that the term of the patent should be extended, by reason of the patentee, without neglect or fault on his past, having failed to obtain, from the use and sale of his invention, a reasonable remuneration for the time, ingenuity, and expense bestowed upon the same, and the introduction

thereof into use, it shall be the duty of the Commissioner to renew and extend the patent, by making a certificate thereon of such extension, for the term of seven years from and after the expiration of the first term; which certificate, with a certificate of said board of their judgment and opinion as aforesaid, shall be entered on record in the Patent Office; and thereupon the said patent shall have the same effect in law as though it had been originally granted for the term of twenty-one years; and the benefit of such renewal shall extend to assignees and grantees of the right to use the thing patented, to the extent of their respective interest therein: Provided, however, That no extension of a patent shall be granted after the expiration of the term for which it was originally issued.

And be it further enacted, That there shall be ent Office. Library of Pat-SEC. 19. provided, for the use of said office, a library of scientific works and periodical publications, both foreign and American, calculated to facilitate the discharge of the duties hereby required of the chief officers therein, to be purchased under the direction of the Committee of the Library of Congress. And the sum of fifteen hundred dollars is hereby appropriated, for that purpose,

to be paid out of the Patent fund.

And be it further enacted, That it shall be the Sec. 20. duty of the Commissioner to cause to be classified and arranged, classified and arranged, ranged. in such rooms or galleries as may be provided for that purpose, in suitable cases, when necessary for their preservation, and in such manner as shall be conducive to a beneficial and favorable display thereof, the models and specimens of compositions and of fabrics and other manufactures and works of art, patented or unpatented, which have been, or shall hereafter be deposited in said office. And said rooms or galleries shall be kept open during suitable hours for public inspection.

SEC. 21. And be it further enacted, That all acts and parts of acts heretofore passed on this subject, be, and the same are hereby repealed: Provided, however, That all actions and processes in law or equity sued out prior to the passage of this act, may be prosecuted to final judgment and execution, in the same manner as though this act had not been passed, excepting and saving the application to any such action, of the provisions of the fourteenth and fifteenth sections of this act, so far as they may be applicable thereto: And provided, also, That all applications or petitions for patents, pending at the time of the passage of this act, in cases where the duty has been paid, shall be proceeded with and acted on in the same manner as though filed after the passage hereof.

Approved July 4, 1836.

CHAP. XLV .- An Act in addition to the act to promote the progress of science and useful arts.

Be it enacted by the Senate and House of Representatives and assignments of the United States of America in Congress assembled, That executed asid reany person who may be in possession of, or in any way inter- 15th December 15th Decemb

Proviso.

Former acts re-

Proviso.

Proviso.

1836, may be recorded anew, &c.

ested in, any patent for an invention, discovery, or improvement, issued prior to the fifteenth day of December, in the year of our Lord one thousand eight hundred and thirty-six, or in an assignment of any patent, or interest therein, executed and recorded prior to the said fifteenth day of December, may, without charge, on presentation or transmission thereof to the Commissioner of Patents, have the same recorded anew in the Patent Office, together with the descriptions, specifications of claim and drawings annexed or belonging to the same; and it shall be the duty of the Commissioner to cause the same, or any authenticated copy of the original record, specification, or drawing which he may obtain, to be transcribed and copied into books of record to be kept for that purpose; and wherever a drawing was not originally annexed to the patent and referred to in the specification, any drawing produced as a delineation of the invention, being verified by oath in such manner as the Commissioner shall require, may be transmitted and placed on file or copied as aforesaid, together with certificate of the oath; or such drawings may be made in the office, under the direction of the Commissioner, in conformity with the specification. Measures to be And it shall be the duty of the Commissioner to take such paken to obtain measures as may be advised and determined by the Board of be recorded, ac. Commissioners provided for in the fourth section of this section Commissioners provided for in the fourth section of this act, to

obtain the patents, specifications, and copies aforesaid, for the purpose of being so transcribed and recorded. And it shall be-Clerks of the the duty of each of the several clerks of the judicial courts of judicial courts, U.S., to transmit the United States, to transmit, as soon as may be, to the Comstatements of au- missioner of the Patent Office, a statement of all the authentiexples of patents, cated copies of patents, descriptions, specifications, and draw-ac., prior to 15th
December, 1838, ings of inventions and discoveries made and executed prior to the aforesaid fifteenth day of December, which may be found on the files of his office; and also to make out and transmit to said Commissioner, for record as aforesaid, a certified copy of every such patent, description, specification, or drawing, which shall be specially required by said Commissioner.

Cerufied copies of such record, &c., to be evi-dence in any ju-dicial court U.S.,

dence in said ourts after lst June next, unless recorded anew.

SEC. 2. And be it further enacted, That copies of such record and drawings, certified by the Commissioner, or, in his absence, by the chief clerk, shall be prima facie evidence of the particulars of the invention and of the patent granted therefor in any judicial court of the United States, in all cases where copies of the original record or specification and drawings would be evidence, without proof of the loss of such originals; and no patent issued prior to the aforesaid fifteenth No patent, ac., originals; and no patent issued prior to the aforesaid fifteenth issued, ac., prior day of December shall, after the first day of June next, be report, 1838, to be ceived in evidence in any of the said courts in behalf of the received in evipatentee or other person who shall be in possession of the same, unless it shall have been so recorded anew, and a drawing of the invention, if separate from the patent, verified as aforesaid, deposited in the Patent Office; nor shall any written assignment of any such patent, executed and recorded prior to the said fifteenth day of December, be received in evidence in any

of the said courts in behalf of the assignee or other person in pessession thereof, until it shall have been so recorded anew.

SEC. 3. And be it further enacted, That whenever it be issued for shall appear to the Commissioner that any patent was destroyed by the burning of the Patent Office building on the aforesaid fifteenth day of December, or was otherwise lost prior ber, 1836. thereto, it shall be his duty, on application therefor by the patentee or other person interested therein, to issue a new patent for the same invention or discovery, bearing the date of the original patent, with his certificate thereon that it was made and issued pursuant to the provisions of the third section of this act, and shall enter the same of record: Provided, however, That before such patent shall be issued, the applicant therefor shall deposit in the Patent Office a duplicate, as near as may be, of the original model, drawings, and description, with specification of the invention or discovery, verified by oath, as shall be required by the Commissioner; and such patent and copies of such drawings and description, duly certified, shall be admissible as evidence in any judicial court of the United States, and shall protect the rights of the patentee, his administrators, heirs, and assigns, to the extent only in which they would have been protected by the original patent and specification. SEC. 4. And be it further enacted, That it shall be the certain mod

models destroyed by fire on the aforesaid fifteenth day of December, as were most valuable and interesting, and whose preservation would be important to the public; and such as would be necessary to facilitate the just discharge of the duties imposed by law on the Commissioner in issuing patents, and to protect the rights of the public and of patentees in patented inventions and improvements: Provided, That a duplicate of such models may be obtained at a reasonable expense: And provided, also, Further provise. That the whole amount of expenditure for this purpose shall not exceed the sum of one hundred thousand dollars. And there shall be a temporary board of commissioners, to be composed of the Commissioner of the Patent Office and two other stoners to be appointed; their depersons to be appointed by the President, whose duty it shall ties. be to consider and determine upon the best and most judicious mode of obtaining models of suitable construction; and, also, to consider and determine what models may be procured in pursuance of, and in accordance with, the provisions and limitations in this section contained. And said Commissioners

SEC. 5. And be it further enacted, That, whenever a patent shall be returned for correction and re-issue under the ed for correction thirteenth section of the act to which this is additional, and the section of act to act to the section of act to the

effect, according to its true intent.

may make and establish all such regulations, terms, and conditions, not inconsistent with law, as in their opinion may be proper and necessary to carry the provisions of this section into

New Patents to

Proviso.

Duplicates of duty of the Commissioner to procure a duplicate of such of the be procured.

Proviso.



separate parts of the thing patented, he shall first pay, in man-

ner and in addition to the sum provided by that act, the sum-of thirty dollars for each additional patent so to be issued: Provided, however, That no patent made prior to the aforesaid

fifteenth day of December, shall be corrected and re-issued until a duplicate of the model and drawing of the thing as

Act of 1836,

Previes.

No addition, &c. to be made to any patent heretofore granted, &c., unlicate model,&c., is deposited, &c.

Compensation for models, &c.

Patents hereafter to be issued.

originally invented, verified by oath as shall be required by the Commissioner, shall be deposited in the Patent Office; nor shall any addition of an improvement be made to any patent heretofore granted, nor any new patent be issued for an imprevement made in any machine, manufacture, or process, to the original inventor, assignee, or possessor, of a patent therefor, nor any disclaimer be admitted to record until a duplicate model and drawing of the thing originally intended, verified as aforesaid, shall have been deposited in the Patent Office, if the Commissioner shall require the same; nor shall any patent be granted for an invention, improvement, or discovery, the model or drawing of which shall have been lost, until another model and drawing, if required by the Commissioner, shall, in like manner, be deposited in the Patent Office; and in all such cases, as well as in those which may arise under the third section of this act, the question of compensation for such models and drawings shall be subject to the judgment and decision of the Commissioners provided for in the fourth section, under the same limitations and restrictions as are therein prescribed. SEC. 6. And be it further enacted, That any patent

hereafter to be issued, may be made and issued to the assignee or assignees of the inventor or discoverer, the assignment thereof being first entered of record, and the application therefor being duly made, and the specification duly sworn to by the inventor. And in all cases hereafter, the applicant for a patent shall be held to furnish duplicate drawings, whenever the case admits of drawings, one of which to be deposited in the office, and the other to be annexed to the patent, and considered a part of the specification.

Whenever any stentee shall,

SEC. 7. And be it further enacted, That, whenever any patfarough inadver- enter shall have, through inadvertence, accident, or mistake, tance, &c., make made his specification of claim too broad, claiming more than too broad, &c., that of which he was the original or first inventor, some material he, &c., may make discharger, and substantial part of the thing patented being truly and justly make discharger, and substantial part of the thing patented being truly and justly his own, any such patentee, his administrators, executors, and assigns, whether of the whole or of a sectional interest therein, may make disclaimer of such parts of the thing patented as the disclaimant shall not claim to hold by virtue of the patent or assignment, stating therein the extent of his interest in such patent; which disclaimer shall be in writing, attested by one or more witnesses, and recorded in the Petent Office, on payment by the person disclaiming, in manner as other patent duties are sequired by law to be paid, of the sum of ten dollars. such disclaimer shall thereafter be taken and considered as part of the original specification, to the extent of the interest which

shall be possessed in the patent or right secured thereby, by the disclaimant, and by those claiming by or under him subsequent to the record thereof. But no such disclaimer shall affect any action pending at the time of its being filed, except so far as may relate to the question of unreasonable neglect or

delay in filing the same.

SEC. 8. And be it further enacted, That, whenever apadditions to new-plication shall be made to the Commissioner for any additions to new-plication shall be made to the Commissioner for any additions to new-plication shall be made to the Commissioner for any additions to new-plication shall be made to the Commissioner for any additions to new-plications are necessarily additional to the commissioner for any additions to new-plications are necessarily additional to the commissioner for any additions to new-plications are necessarily additional to new-plication shall be made to the Commissioner for any additions to new-plication shall be made to the Commissioner for any additions to new-plications are necessarily additional to new-plication shall be made to the Commissioner for any additional to new-plication shall be made to the Commissioner for any additional to new-plication shall be made to the Commissioner for any additional to new-plication shall be made to the Commissioner for any additional to new-plication shall be made to the Commissioner for any additional to new-plication shall be made to the Commissioner for any additional to the Commissioner for the Commissioner for additin tion of a newly discovered improvement to be made to an existing patent, or whenever a patent shall be returned for cor- patents, &c. rection and re-issue, the specification of claim annexed to every such patent shall be subject to revision and restriction, in the same manner as are original applications for patents; the Commissioner shall not add any such improvement to the patent in the one case, nor grant the re-issue in the other case, until the applicant shall have entered a disclaimer, or altered his specification of claim in accordance with the decision of the Commissioner; and in all such cases, the applicant, if dissatisfied with such decision, shall have the same remedy, and be entitled to the benefit of the same privileges and proceedings, as are provided by law in the case of original applications for patents.

SEC. 9. And be it further enacted, (any thing in the when by mistake, acc., any fifteenth section of the act to which this is additional to the patentee claims contrary notwithstanding,) That, whenever by mistake, accident inventor of part dent, or inadvertence, and without any wilful default or intent of the thing patentee defraud or mislead the public, any patentee shall have in he was not, acc. his specification claimed to be the original and first inventor or discoverer of any material or substantial part of the thing patented, of which he was not the first and original inventor, and shall have no legal or just right to claim the same, in every such case the patent shall be deemed good and valid for so much of the invention or discovery as shall be truly and bona fide his own: Provided, It shall be a material and substantial part of the thing patented, and be definitively distinguishable from the other parts so claimed without right as aforesaid. And every such patentee, his executors, administrators, and assigns, whether of a whole or of a sectional interest therein, shall be entitled to maintain a suit at law or in equity on such patent for any infringement of such part of the invention or discovery as shall be bona fide his own as aforesaid, notwithstanding the specification may embrase more than he shall have any legal right to claim. But, in every such case in which a judgment er verdict shall be rendered for the plaintiff, he shall not be entitled to recover costs against the defendant, unless he shall have entered at the Patent Office, prior to the commencement of the suit, a disclaimer of all that part of the thing patented which was so claimed without right: Provided, however, That Further previse. no person bringing any such suit shall be entitled to the benefits of the provisions contained in this section, who shall have unreasonably neglected or delayed to enter at the Patent Office e disclaimer as aforesaid.

Agents to be appointed to reward models,&c.

SEC. 10. And be it further enacted, That the Commissioner is hereby authorized and empowered to appoint agents in not exceeding twenty of the principal cities or towns in the United States as may best accommodate the different sections of the country, for the purpose of receiving and forwarding to the Paient Office all such models, specimens of ingredients, and manufactures, as shall be intended to be patented or deposited therein, the transportation of the same to be chargeable to the Patent fund.

Two examining and one copyappointed.

And be it further enacted, That instead of SEC. 11. one examining clerk, as provided by the second section of the act to which this is additional, there shall be appointed, in manner therein provided, two examining clerks, each to receive an annual salary of fifteen hundred dollars; and also, an additional copying clerk, at an annual salary of eight hundred dollars. And the Commissioner is also authorized to employ, from time to time, as many temporary clerks as may be necessary to execute the copying and draughting required by the first section of this act, and to examine and compare the records with the originals, who shall receive not exceeding seven cents for every page of one hundred words, and for drawings and comparison of records with originals, such reasonable compensation as shall be agreed upon or prescribed by the Commissioner.

Temporary clerks may be employed.

Certificate of the commission-er to be sufficient warrant to the Treasurer.

And be it further enacted, That whenever Sec. 12. the application of any foreigner for a patent shall be rejected and withdrawn for want of novelty in the invention, pursuant to the seventh section of the act to which this is additional, the certificate thereof of the Commissioner shall be a sufficient warrant to the Treasurer to pay back to such applicant twothirds of the duty he shall have paid into the Treasury on account of such application.

may be substitut-

And be it further enacted, That in all cases SEC. 13. in which an oath is required by this act, or by the act to which this is additional, if the person of whom it is required shall be conscientiously scrupulous of taking an oath, affirmation may be substituted therefor.

Moneye paid into the Treasury for patents, &c., prior to passage of act to which this is additional, to be carried to credit of patent fund created by said act; and said

SEC. 14. And be it further enacted, That all moneys paid into the Treasury of the United States for patents and for fees for copies furnished by the Superintendent of the Patent Office prior to the passage of the act to which this is additional, shall be carried to the credit of the Patent fund created by said act; and the moneys constituting said fund shall be, and the fund appropriated. same are hereby, appropriated for the payment of the salaries for salaries, ac. of the officers and clearly salaries for salaries. of the officers and clerks provided for by said act, and all other expenses of the Patent Office, including all the expenditures provided for by this act; and, also, for such other purposes as are or may be hereafter specially provided for by law. And Commissioner the Commissioner is hereby authorized to draw upon said fund, authorized to draw upon said lund, draw upon said lund, draw upon said from time to time, for such sums as shall be necessary to carry for Congress and lay before Congress and into effect the provisions of this act, governed, however, by the

several limitations herein contained. And it shall be his duty nually a stateto lay before Congress, in the month of January, annually, a ture, &c.; and, detailed statement of the expenditures and payments by him ents, &c. made from said fund. And it shall also be his duty to lay before Congress, in the month of January, annually, a list of all patents which shall have been granted during the preceding year, designating, under proper heads, the subjects of such patents, and furnishing an alphabetical list of the patentees, with their places of residence; and he shall also furnish a list of all patents which shall have become public property during the same period; together with such other information of the state and condition of the Patent Office as may be useful to Congress or to the public.

Approved, March 3d, 1837.

CHAP. LXXXVIII .- An Act in addition to "An Act to promote the progress of Useful Arts."

Be it enacted by the Senats and House of Representatives Be it enacted by the Senate and House of Representatives

Act of July 4,

of the United States of America in Congress assembled, That

Act of July 4,

Act of section of the act to which this is additional, two assistant ex- examiners to be aminers, each to receive an annual salary of twelve hundred appointed—bow and fifty dollars.

And be it further enacted, That the Commissioner Temporary el'ass. be authorized to employ temporary clerks to do any necessary transcribing, whenever the current business of the office requires it: Provided, however, That instead of salary, a compensation shall be allowed, at a rate not greater than is charged for copies now furnished by the office.

And be it further enacted, That the Commissioner SEC. 3. is hereby authorized to publish a classified and alphabetical list of all patents granted by the Patent Office previous to said publication, and retain one hundred copies for the Patent Office, and nine hundred copies to be deposited in the library of Congress, for such distribution as may be hereafter directed; and that one thousand dollars, if necessary, be appropriated, out of the Patent fund, to defray the expense of the same.

SEC. 4. And be it further enacted, 'That the sum of three thousand six hundred and fifty-nine dollars and twenty-two cents be, and is hereby, appropriated from the Patent fund, to pay for the use and occupation of rooms in the City Hall by the Patent Office.

Pay for use of

SEC. 5. And be it further enacted, That the sum of one thousand dollars be appropriated from the Patent fund, to be books. expended under the direction of the Commissioner, for the purchase of necessary books for the library of the Patent Office.

SEC. 6. And be it further enacted, That no person shall be debarred from receiving a patent for any invention or discovery, No person to be as provided in the act approved on the fourth day of July, one ceiving a patent, thousand eight hundred and thirty-six, to which this is addi-

Proviso.

Proviso.

tional, by reason of the same having been patented in a foreign country more than six months prior to his application: Provided, That the same shall not have been introduced into public and common use in the United States prior to the application for such patent: And provided, also, That in all cases every such patent shall be limited to the term of fourteen years from the date or publication of such foreign letters patent.

Persons, &c., having purchased or constructed any newly invented machine, kc.

Sec. 7. And be it further enacted, That every person or corporation who has, or shall have, purchased or constructed any newly invented machine, manufacture, or composition of matter, prior to the application by the inventor or discoverer for a patent, shall be held to possess the right to use, and vend to others to be used, the specific machine, manufacture, or composition of matter so made or purchased, without liability therefor to the inventor, or any other person interested in such invention; and no patent shall be held to be invalid by reason of such purchase, sale, or use prior to the application for a patent as aforesaid, except on proof of abandonment of such invention to the public; or that such purchase, sale, or prior use has been for more than two years prior to such application for a patent.

So much of 11th e. act 4th July, 1839, ch. 357, as requires payment for recording as**signments**, recaled.

SEC. 8. And be it further enacted, That so much of the eleventh section of the above recited act as requires the payment of three dollars to the Commissioner of Patents for recording any assignment, grant, or conveyance of the whole or any part of the interest or right under any patent, be, and the same is hereby repealed; and all such assignments, grants, and conveyances shall, in future, be recorded without any charge whatever.

Agricultural stas,Ac.

SEC. 9. And be it further enacted, That a sum of money, not exceeding one thousand dollars, be, and the same is hereby, appropriated out of the Patent fund, to be expended by the Commissioner of Patents in the collection of agricultural statistics, and for other agricultural purposes; for which the said Commissioner shall account in his next annual report.

Provisions 16th

SEC. 10. And be it further enacted. That the provisions of sec. act 4th July, the sixteenth section of the before recited act shall extend to all 1836, ch. 357, ex.

cases where patents are refused for any reason whatever, either cases where patents are refused for any reason whatever, either by the Commissioner of Patents or by the Chief Justice of the District of Columbia, upon appeals from the decision of said Commissioner, as well as where the same shall have been refused on account of, or by reason of, interference with a previously existing patent; and in all cases where there is no opposing party, a copy of the bill shall be served upon the Commissioner of Patents, when the whole of the expenses of the proceeding shall be paid by the applicant, whether the final decision shall be in his favor or otherwise.

Anneals.

SEC. 11. And be it further enacted, That in all cases where an appeal is now allowed by law from the decision of the Commissioner of Patents to a board of examiners provided for in the seventh section of the act to which this is additional, the

party, instead thereof, shall have a right to appeal to the Chief Justice of the district court of the United States for the District of Columbia, by giving notice thereof to the Commissioner, and filing in the Patent Office, within such time as the Commissioner shall appoint, his reasons of appeal, specifically set forth in writing, and also paying into the Patent Office, to the credit of the Patent fund, the sum of twenty-five dollars. And it shall be the duty of said Chief Justice, on petition, to hear and determine all such appeals, and to revise such decisions in a summary way, on the evidence produced before the Commissioner, at such early and convenient time as he may appoint, first notifying the Commissioner of the time and place of hearing, whose duty it shall be to give notice thereof to all parties who appear to be interested therein, in such manner as said judge shall prescribe. The Commissioner shall also lay before the said judge all the original papers and evidence in the case, together with the grounds of his decision, fully set forth in writing, touching all the points involved by the reasons of appeal, to which the revision shall be confined. And at the request of any party interested, or at the desire of the judge, the Commissioner and the examiners in the Patent Office may be examined under oath, in explanation of the principles of the machine or other thing for which a patent, in such case, is prayed for. And it shall be the duty of the said judge, after a hearing of any such case, to return all the papers to the Commissioner, with a certificate of his proceedings and decision, which shall be entered of record in the Patent Office; and such decision, so certified, shall govern the further proceedings of the Commissioner in such case: Provided, however, That no opinion or decision of the judge in any such case shall preclude any person interested in favor or against the validity of any patent which has been or may hereafter, be granted, from the right to contest the same in any judicial court, in any action in which its validity may come in question.

SEC. 12. And be it further enacted, That the Commissioner of Patents shall have power to make all such regulations in latious respecting respect to the taking of evidence to be used in contested cases contested cases before him, as may be just and reasonable. And so much of the act to which this is additional, as provides for a board of

examiners, is hereby repealed.

SEC. 13. And be it further enacted, That there be paid annually, out of the Patent fund, to the said Chief Justice, in consideration of the duties herein imposed, the sum of one hundred dollars.

Approved March 3d, 1839.

CHAP. CCLXIII.—An Act in addition to an act to promote the progress of the uniful arts, and to repeal all acts and parts of acts heretofore made for that purpose.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That 1836, ch. 357, the Treasurer of the United States be, and he hereby is, and Act of March 3,

Proviso.

Commissioner

Compensatio



Act of March 3, thorized to pay back, out of the Patent fund, any sum or sums Treasurer au- of money, to any person who shall have paid the same into thorised to pay the Treasury, or to any receiver or depositally to the credit of Patent fund, eer the Treasurer, as for fees accruing at the Patent Office through Patent fund, cer the Treasurer, as for fees accruing at the Patent Office through mistake, and which are not provided to be paid by existing laws, certificate thereof being made to said Treasurer by the Commissioner of Patents.

Sec. 3, act of 3d March, 1837, ch. 43, extended to patents grant-ed prior to 15th Dec., 1836, tho lost subsequent-

Proviso.

Sec. 2. And be it further enacted, That the third section of the act of March, eighteen hundred and thirty-seven, which authorizes the renewing of patents lost prior to the fifteenth of December, eighteen hundred and thirty-six, is extended to patents granted prior to said fifteenth day of December, though they may have been lost subsequently: Provided, however, The same shall not have been recorded anew under the pro-

Citizens, &c., nay obtain a pabow.

visions of said act. SEC. 3. And be it further enacted, That any citizen or citizens, or alien or aliens, having resided one year in the United States, and taken the oath of his or their intention to become a citizen or citizens, who by his, her, or their own industry, genius, efforts, and expense, may have invented or produced any new and original design for a manufacture, whether of metal or other material or materials, or any new and original design for the printing of woollen, silk, cotton, or other fabrics, or any new or original design for a bust, statue, or bas relief or composition in alto or basso relievo, or any new and original impression or ornament, or to be placed on any article of manufacture, the same being formed in marble or other material, or any new and useful pattern, or print, or picture, to be either worked into or worked on, or printed or painted or cast or otherwise fixed on, any article of manufacture, or any new and original shape or configuration of any article of manufacture not known or used by others before his, her, or their invention or production thereof, and prior to the time of his, her, or their application for a patent therefor, and who shall desire to obtain an exclusive property or right therein to make, use, and sell and vend the same, or copies of the same, to others, by them to be made, used, and sold, may make application in writing, to the Commissioner of Patents expressing such desire, and the Commissioner, on due proceedings had, may grant a patent therefor, as in the case now of application for a patent: Provided, That the fee in such cases, which by the now existing laws would be required of the particular applicant shall be one-half the sum, and that the duration of said patent shall be seven years, and that all the regulations and provisions which now apply to the obtaining or protection of patents not inconsistent with the provisions of this act shall apply to applications under this section.

Provied

SEC. 4. And be it further enacted, That the oath required Oath may be on for applicants for patents may be taken, when the applicant is not, for the time being, residing in the United States, before any minister, plenipotentiary, charge d'affaires, consul, or

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commercial agent, holding commission under the Government of the United States, or before any notary public of the foreign

country in which such applicant may be.

SEC. 5. And be it further enacted, That if any person or persons, shall paint or print or mould, cast, carve, or engrave, fringing the rights or stamp, upon any thing made, used, or sold, by him for the sole making or selling which he hath not or shall not have obtained letters patent, the name or any imitation of the name of any other person who hath or shall have obtained letters patent for the sole making and vending of such thing, without consent of such patentee, or his assigns or legal representatives; or if any person, upon any such thing not having been purchased from the patentee, or some person who purchased it from or under such patentee, or not having the license or consent of such patentee, or his assigns or legal representatives, shall write, paint, print, mould, cast, carve, engrave, stamp, or otherwise make or affix the word "patent," or the words "letters patent," or the word "patentee," or any word or words of like kind, meaning, or import, with the view or intent of imitating or counterfeiting the stamp, mark, or other device of the patentee, or shall affix the same, or any word, stamp, or device, of like import, on any unpatented article, for the purpose of deceiving the public, he, she, or they, so offending, shall be liable for such offence to a penalty of not less than one hundred dollars, with costs, to be recovered by action in any of the circuit courts of the United States, or in any of bie, &c. the district courts of the United States having the powers and jurisdiction of a circuit court; one-half of which penalty, as recovered, shall be paid to the Patent fund, and the other half to any person or persons who shall sue for the same.

SEC. 6. And be it further enacted, That all patentees and assignees of patents hereafter granted, are hereby required to articles offer stamp, engrave, or cause to be stamped or engraved, on each for sale. article vended or offered for sale, the date of the patent; and if any person or persons, patentees or assignees, shall neglect to do so, he, she, or they shall be liable to the same penalty, to gleck be recovered and disposed of in the manner specified in the

foregoing fifth section of this act.

Approved, August 29th, 1842.

Penalty for ne-

AN INDEX

TO THE

DECISIONS OF THE COURTS OF THE UNITED STATES,

CONCERNING

LETTERS PATENT FOR INVENTIONS,

And the proceedings and evidence in actions for damages on the infringement of Patent rights, the extension of Patents, &c., &c.

It is proper to remark, in reference to the following compilation of the decisions of the several courts of the United States in relation to Patents, and other matters connected with them, that it does not aspire to the dignity of a systematic and logical digest, but is intended merely as an index and guide to persons interested in the examination of Patent law, to point them to the sources whence it is to be sought, namely, the decisions of the courts themselves. In the elaborate and learned opinions of our tribunals will be found the ablest commentaries upon, and the most satisfactory expositions of, the American Patent Law; a general summary of which it has been deemed expedient to submit to the American public, in connection with the Digested Index of Inventions which have been patented in the United States since the establishment and organization of its Patent system in 1790.

INDEX.

- Of the forms and subjects of Patents; of the invention or discovery; of the utility of the invention; and of the interpretation and construction of letters patent.
- 1. Although it is not settled whether, under the general Patent law, improvements on different machines can be comprehended in the same patent, so as to give a right to the exclusive use of the several machines in combination; yet the act of January 21st, 1808, ch. 117, for the relief of Oliver Evans, authorizes the issuing to him of a patent for his invention, discovery, and improvements in the art of manufacturing flour, and in the several machines applicable to that purpose. Evans v. Eaton, 3 Wheat. 454, 1 Peters, 322.

2. Under the sixth section of the Patent law of February 21, 1793, ch. 156, if the thing secured by patent had been in use, or had been described in a public work, anterior to the supposed discovery, the patent is void, whether the patentee had a knowledge of this previous use or description or not. *Ibid*,

1 Peters, 322, S. C.

3. A party cannot entitle himself to a patent for more than his own invention; and if the patent be for the whole of a machine, he can maintain a title to it only by establishing that it is substantially new in its structure and mode

of operation. Evans v. Eaton, 7 Wheat. 356.

4. If the combinations existed before in machines of the same nature, up to a certain point, and the party's invention consists in adding some new machinery or some improved mode of operation to the old, the patent should be limited to such improvement; for if it includes the whole machinery, it includes more than his invention, and therefore cannot be supported. *Ibid*.

5. Where a patent is taken out for an improvement, the specification ought to describe what the improvement is, and the patent should be limited to such improvement. *Ibid.* 1 Peters, 322. S. C. 3 Wash. C. C. R. 443.

6. The taking of the oath required by the Patent act, previous to the issuing a patent, is but a pre-requisite to the granting of a patent, and in no degree essential to its validity; and if not taken, still the patent is valid. Whitte-

more v. Cutter, 1 Gallis. 429.

7. The first inventor is entitled to the benefit of his invention, if he reduce it to practice and obtain a patent therefor: and a subsequent inventor cannot, by obtaining a patent, oust the first inventor of his right, or maintain an action against him for the use of his own invention. Woodcock v. Parker et al. 1 Gallis. 438. Bedford v. Hunt, 1 Mass. 302. Evans v. Weiss, 2 Wash. C. C. R. 342.

8. If the machine for which the patent was obtained substantially existed before, and the plaintiff made an improvement only therein, he is entitled to a patent for the improvement only, and not for the whole machine: and when, under such circumstances, the patent comprehends the whole machine, it is too broad, and therefore void. *Ibid*.

9. It is not necessary to defeat the plaintiff's patent, that a machine should previously have existed in every respect similar to his own; for a mere change

of former proportions will not entitle a party to a patent. Ibid.

10. If he claim a patent for a whole machine, it must in substance be a

new machine; that is, it must be a new mode, method, or application of mechanism to produce some new effect, or to produce an old effect in a new way. Ibid.

11. If one who has invented merely an improvement, take out a patent for the whole machine, his patent is too broad, and utterly void. Whittemore ∇ .

Cutter, 1 Gallis. 476.

12. When a specific machine already exists, producing certain effects, if a mere addition is made to such machine, to produce the same effect in a better manner, a patent cannot be taken for the whole machine, but for the improvement only. Ibid.

13. In like manner, if to an old machine some new combinations be added, to produce new effects, the right to a patent is limited to the new combina-

tions.

14. A patent can, in no case, be for an effect only, but for an effect produced in a certain manner, or by a peculiar operation. For instance, no patent can be obtained for the admeasurement of time, or the expansive operations of steam; but only for a new mode or new application of machinery to produce these effects: and therefore if new effects are produced by an old machine, in its unaltered state, no patent can be legally supported, for it is a patent for an effect only. Ibid.

15. On the other hand, if well known effects are produced by machinery, in all its combinations entirely new, a patent may be claimed for the whole

16. So if the principles of the machine are new, either to produce a new or an old effect, the inventor may well entitle himself to the exclusive right of the whole machine. Ibid.

17. By the principles of a machine, as these words are used in the statute, is not meant the original elementary principles of motion which philosophy and science have discovered, but the modus operandi, the peculiar device or manner of producing any given effect. The expansive power of steam and the mechanical powers of wheels have been understood for ages; yet a machine may well employ either the one or the other, and yet be so entirely new in its mode of applying them, as to entitle a party to his patent for his whole com-

18. It is not sufficient to give validity to a patent that the specific machine. with all its combinations and effects, did not exist before; for if the same effects were all produced by the same application of machinery in separate parts, and the party merely combined them together, or added a new effect, such combination would not sustain the patent; as the artist who added a second hand or repeater to a watch, could not have been entitled to a patent for

the whole watch. Ibid.

19. The original inventor of a machine is exclusively entitled to a patent Mere colorable differences, or slight improvements, will not affect his

Odiorne v. Winkley, 2 Gallis. 51.

20. If another person invent an improvement on a machine, he can entitle himself to a patent for the improvement only, and does not thereby acquire a right to patent and use the original machine: and if he obtain a patent for the whole machine, and not for the improvement only, his patent is too broad, and therefore void.

21. The material question in patent causes is, not whether the same elements of motion, or the same component parts are used, but whether the given effect is produced substantially by the same mode of operation, and the same combination of powers in both machines. Mere colorable differences or slight improvements cannot shake the right of the original inventor. Ibid.

- 22. By the expression "true inventor" in the statute is undoubtedly meant the sole and exclusive inventor; for if the machine were the joint invention of several persons, neither of them could claim to be the true inventor, having an exclusive right to the patent, but the interest would be a joint or common interest in the whole. In such a case, therefore, if a party were to obtain a patent for the invention, having sworn that he was the true inventor, he would, in the language of this act, obtain it upon "false suggestion," and as such false suggestion would be a surprise and fraud upon the Government, it might well also be declared to be obtained "surreptitiously." Stearnes v. Barret, 1
- Mason, 153.23. The law allows a party a patent for a new and useful invention; and by "useful invention" is meant, not an invention, in all cases superior to the modes now in use for the same purpose, but useful in contradistinction to frivolous and mischievous inventions. Lowell v. Lewis, 1 Mason, 182.

24. As among inventors, he who is first in time has a prior right to the patent

for the invention. Ibid.

25. By "useful invention" in the Patent act of the United States, is meant an invention which may be applied to a beneficial use in society, in contradistinction to an invention which is injurious to the morals, the health, or the good order of society. Bedford v. Hunt et al., 1 Mason, 302. Kneas v. Schuylkill Bank, 4 Wash. C. C. Rep.

26. It is not necessary that the invention should be of such general utility as to supersede all other inventions previously in practice, to accomplish the

same purpose. Ibid, 1 Mason, 302.

27. Nor is it important that its practical utility should be very limited, for

the law does not look to the degree of utility. Ibid.

28. A joint patent may well be for a joint invention, but not for a sole invention of one of the patentees: if each of the patentees obtain separate patents for the same invention, as his exclusive invention, and afterwards both obtain a joint patent for the same as their joint invention, they are estopped by the joint patents from asserting any title under the several patents. Barrett et al. v. Hall et al., 1 Mason, 447.

29. If several patents are taken out by several patentees for a several invention, and the same patentees afterwards take out a joint patent for the same as a joint invention, the parties are not absolutely estopped from asserting the invention to be joint, but the former patents are very strong evidence against

Ibid. a joint invention.

30. A patent cannot embrace various distinct improvements or inventions, but in such case the party must take out separate patents: and if the patentee has invented certain improved machines, which are capable of a distinct operation, and also has invented a combination of those machines to produce a connected result, the same patent cannot at once be for the combination and for each of the improved machines, for the inventions are as distinct as if the subjects were entirely different. Ibid.

31. An inventor cannot, under the Patent laws of the United States, have two subsisting valid patents at the same time, for the same invention. first that he obtains, while it remains unrepealed, is an estoppel to any future patent for the same invention, founded upon the general Patent act.

v. The Amesbury Nail Factory, 2 Mason. 28.

32. An invention or improvement, for which a patent has been obtained, must be useful, within the meaning of the Patent law, or the patent is void. Langdon v. De Groot et al., 1 Paine, 203.

33. Whether the usefulness of an invention be matter of fact to be left to the jury, or whether the court is to decide it as matter of law, Query? Ibid.

34. It seems, however, that if, on the plaintiff's own showing, the invention appears to be useless, and an imposition on the public, the court should so direct the jury. *Ibid*.

35. An invention of an ornamental mode of putting up thread, which gave it no additional value, but merely made it sell more readily at retail, and for a larger price, is not a useful invention within the meaning of the Patent law. *Ibid.*

36. Under the Patent act of February 21st, 1793, c. 156, a patent is valid, although the invention may have been in use for years anterior to the date of the patent, if the patentee was the inventor. Goodyear v. Matthews, 1 Paine, 300.

37. A patent for an entire machine is valid, although the invention consists only of an improvement on such machine; but the patentee is entitled to an

exclusive use of no more than his improvement. Ibid.

38. The first section of the Patent act of February 21st, 1793, c. 156, construed in connexion with the other sections of the act, means that the invention should not be known or used as the invention of any other person than the patentee, before the application for the patent. *Morris* v. *Huntingdon*, 1 Paine, 348.

39. If the invention has got into use while the inventor was practising upon it, with a view to improve it before applying for a patent, such use does not invalidate the patent; and the motive for delay is a question for the jury. *Ibid*.

40. To obtain a patent under the laws of the United States, the party must be the original inventor in reference to the whole world; it is not sufficient that he be the first inventor within the United States. Reutgers v. Kanowers et al., 1 Wash. C. C. R. 168. Evans v. Eaton, 1 Peters' C. C. R. 323.

41. One who is the inventor of an improvement in the principle of a machine has the same right to the use of it as the inventor of the original machine had to that: aliter, if it be only in the form or proportion. Ibid. Gray et al. v.

James et al., 1 Peters' C. C. R. 394.

42. It is a sufficient objection to the validity of a patent, that the allegations and suggestions of the petition are not recited in it. *Evans* v. *Chambers*, 2 Wash. C. C. R. 125.

43. If two machines be substantially the same, operating in the same manner to produce the same result, though they vary in forms, proportions, and degrees of utility, they are the same in principle, and the discoverer of the latter is entitled to a patent only for an improvement. Evans v. Eaton, 3

Wash. C. C. R. 443.

44. These are defects in the plaintiff's title, apparent upon the face of the documents on which the title is founded. On the same ground, defendant may object that the patent is broader than the discovery; that it is for an improvement which is not distinguished in the specification from the original invention; that the suggestions of the petition are not recited substantially in the patent. Kneass v. The Schuylkill Bank, 4 Wash. C. C. R.

45. A mistake of the word painting for printing in the patent is immaterial, if explained by other parts of the patent and specification, so that there can be

no mistake. Ibid.

46. It is no objection to the validity of a patent that the mode of performing

an operation, common and well known, is not described. Ibid.

47. The patent granted to O. Evans contains no grant of a right to the several machines, but is confined to the improvements in the art of manufacturing flour by those machines; although the act of Congress, authorizing the grant of the patent, authorized it to be issued for the several machines, as well as for the entire improvement. Evans v. Eaton, 1 Peters' C. C. R. 322.

48. A patent may be for a new and useful art; but it must be practicable

and explicable, and referable to something which may prove it to be useful. Ibid.

49. A machine or an improvement may be new and entitled to a patent, although parts of it were before known and used. *Ibid*.

50. The combination of old machines to produce a new and useful result,

is a discovery for which a patent may be granted. Ibid.

51. Where two machines are substantially the same, and operate in the same manner to produce the same result, they must be in principle the same.

Gray et al. v. James et al., 1 Peters' C. C. R. 394.

52. A patent "for an improvement in the art of making nails, by means of a machine which cuts and heads the nail at one operation," is not a grant of an abstract principle, nor is it the grant of the different parts of any machine, but of an improvement applied to a practical use, effected by a combination of various mechanical powers to obtain a new result. *Ibid*.

53. It is not sufficient to invalidate a patent that the specification is materially defective, unless the patentee intended by concealment of parts of the machine to deceive; and where practical mechanics are enabled to supply any omission in the specification, such an intention will not be presumed. *Ibid*.

54. By useful invention in the Patent act of the United States, is meant an invention which may be applied to a beneficial use in society, in contradistinction to an invention injurious to the moral health or good order of society. Bedford v. Hunt, 1 Mason, 302.

55. It is of no consequence whether its utility be general or limited to a few cases; and it is not necessary to establish, that the invention is of such general utility, as to supersede the other inventions now in practice to accomplish

the same purpose. Ibid.

56. Under the Patent laws of the United States, the applicant for a patent must be the first, as well as the original, inventor; and a subsequent inventor, although an original inventor, is not entitled to a patent, if the invention is perfected and put into actual use by the first and original inventor; and it is of no consequence whether the invention is extensively known or used, or whether the knowledge or use thereof is limited to a few persons, or even to the first inventor himself, or is kept a secret by the first inventor. Reed v. Cutter, 1 Story, 590.

57. The decision in *Dolland's case*, that a first and original inventor, who had kept his invention a secret, so that the public had no benefit thereof, could not defeat the patent of a subsequent original inventor, may be a correct exposition of the Statute of Monopolies (Stat. of 21 James I, ch. 3, § 6); but it

is not applicable to the Patent Laws of the United States. Ibid.

58. The language of the Patent act of 1836, ch. 357, § 6, "not known or used by others before his or their discovery thereof," does not require that the invention should be known or used by more than one person, but merely indicates that the use should be by some other person or persons than the patentee. *Ibid*.

59. Under the Patent act of 1836, (ch. 357, § 15,) an inventor, who has first actually perfected his invention, will not be deemed to have surreptitiously or unjustly obtained a patent for that which was in fact invented by another, unless the latter was, at the time, using reasonable diligence in adapting and perfecting the same; yet he who invents first shall have the prior right, if he is using reasonable diligence in adapting and perfecting the same, although the second inventor has in fact first perfected the same, and first reduced the same to practice in a positive form. *Ibid.*

60. An imperfect and incomplete invention, resting in mere theory, or in intellectual notion, or in uncertain experiments, and not actually reduced to

practice, and embodied in some distinct machinery, apparatus, manufacture, or composition of matter, is not patentable under the laws of the United States. He is the first inventor, in the sense of the Patent act of the United States, and entitled to a patent for his invention, who has first perfected and adapted the same to use; and until the invention is so perfected and adapted to use, it is not patentable. *Ibid*.

61. It seems, that in a race of diligence between two independent inventors, he who first reduces his invention to a fixed and positive form is enti-

tled to a priority of right to a patent therefor. Ibid

62. Where a patent for an improvement on looms sets forth as the invention claimed "the communication of motion from the Reed to the Yarn Beam, in the connection of the one with the other, which is produced as follows," describing the mode. It was held, that the invention was limited to the specific machinery and mode of communicating the motion, &c., specially described in the specification. If it were otherwise construed, as including all modes of communicating the motion, &c., it would be utterly void, as being an attempt to patent an abstract principle, or for all possible and practical modes of communication of motion whatsoever, though invented by others, and substantially different from the mode stated in the patent. Stone v. Sprague, 1 Story, 270.

63. Patents for inventions are not granted as monopolies or restrictions upon the rights of the community, but "to promote science and the useful arts," and are to be liberally construed. Blanchard v. Sprague, 2 Story, 164.

64. The power of Congress to grant to inventors is general; and it is in their discretion to say, when, and for what length of time, and under what cir-

cumstances, the patent for an invention shall be granted. Ibid.

65. Congress has power to pass an act, which operates retrospectively, to give a patent for an invention already in public use; but no act will be construed to operate retrospectively, unless such a construction is unavoidable. *Ibid.*

66. In the present case, it was held, that the patent was for a machine, and

not for a principle or function; and, therefore, was valid. Ibid.

67. The application of an old process to produce a new result, is not a patentable invention; there must be, also, some new process or mode. But the production of an old result by a new process is patentable. Howe v. Abbott, 2 Story, 190.

68. A machine is only patentable when it is substantially new; but the application of an old machine to a new process is not patentable. Bean v. Small-

wood, 2 Story, 408.

69. In the present case, the invention was held not to be patentable, because it was merely the application of an old apparatus to a new purpose. *Ibid*.

70. Where the plaintiff, in the specification of his patent, claimed as his invention "an improvement in the construction of the axles or bearings of railway, or other wheeled carriages," and it appeared that the improvement, though it had never before been applied to railway carriages, was well known as applied to other carriages, it was held, the patent was not good. Winans v. Prov. R. R. Co., 2 Story, 41%.

71. Patents are to be interpreted by a consideration of the whole instrument, and it is to be thereby determined what thing is intended to be patented. Car-

ver v. Braintree Manufacturing Co., 2 Story, 433.

72. Whoever finally perfects a machine, and renders it capable of useful operation, is entitled to a patent, although others may have had the idea, and made experiments towards putting it into practice; and although all of the component parts may have been known under a different combination, or used for a different purpose. Washington v. Gould, 3 Story, 122.

73. Patents are entitled to a liberal construction, since they are not granted as restrictions upon the rights of the community, but "to promote science and the useful arts." Blanchard v. Sprague, 3 Sumner, 535.

74. A patent will not be valid, which is simply a principle or function de-

tached from machinery. Ibid.

75. Congress has general power, under the Constitution of the United States, to grant patents to inventors; and it rests in the sound discretion of Congress to say, when and for what length of time, and under what circumstances, the patent for an invention shall be granted. Therefore, an act of Congress, granting a patent, was not unconstitutional, though it operated retrospectively to give a patent for an invention, which, though made by the patentee, was in public use and enjoyed by the community at the time of the passage of the act. *Ibid*.

76. A patent was granted by act of Congress of 1834, ch. 213, but declared void by the Court, on the ground of a defect in the act. Afterwards the grant of the patent was renewed by another act of Congress (1839, ch. 14.) Quære, whether the latter act would be constitutional, if it gave damages for the construction or use of the machine before the grant of the patent under the act.

Ibid.

77. It is not necessary to the validity of a patent for a new and useful invention, that any of the ingredients should be new or unused before for the purpose. The true question is, whether the *combination* of materials by the patentee is substantially new. Ryan v. Goodwin, 3 Sumner, 514.

78. An invention, to be valid, must be substantially different from any ma-

chine or thing in use. Stanley v. Whipple, 2 McLean's R., 35.

79. The true meaning of the words of the Patent law, "not known or used before the application," is, not known or used by the public before the applica-

tion. Pennock et al. v. Dialogue, 2 Peters' R., 19.

80. The words "any newly invented machine, manufacture, or composition of matter," in the 7th section of the act of 1839, have the same meaning as "invention," or "thing patented." McChurg et als. v. Kingsland et als., 1 Howard, 202.

81. Same as the above. Smith v. Pearce, 2 McLean, 176.

- 82. An alteration merely formal, or a slight improvement, will give no right. *Ibid*.
- 83. By the provisions of the act of Congress of 17th April, 1860, citizens and aliens, as to patent rights, are placed substantially upon the same ground. In either case, if the invention was known or used by the public before it was patented, the patent is void. In both cases, the right must be tested by the same rule. Shaw v. Cooper, 7 Peters', 202.

84. A patent, to be valid, must be of some utility. Stanley v. Whipple, 2

McLean, 35.

- 85. Mere technical objections to letters patent are not to be encouraged or construed liberally for him making them. Woodworth v. Hall, 1 Woodbury, 248.
- 86. A patent is not to protect a monopoly of what existed before and belonged to others, but to protect something which did not exist before, and which belongs to the patentee. Davoll v. Brown, 1 Woodbury, 53.

87. A construction of patents, liberal for the patentees, is proper. But the description of the patent must be so certain, as to be understood by those ac-

quainted with the subject matter. *Ibid*.

88. But the whole of the specification, as well as the summary and the drawings, are generally to be examined and compared, and not one alone look-

ed to, in order to decide what new part or new combination is claimed to be invented and protected. *Ibid*.

89. In coming to a result, practical views, rather than subtle distinctions,

must govern. *Ibid*.

90. A difference in form or proportions only, makes no difference in the principle of a machine Brooks & Morris v. Jenkins et al., 3 McLean, 250.

91. A patent is invalid, if described in a foreign publication. Ibid.

92. The exclusive grant in a patent is the construction and use of the thing

patented. Boyd v. Brown, 3 McLean, 295.

- 93. Where the right consists in certain instruments, by which a bedstead of a particular structure is made, the structure or use of these instruments is prohibited. *Ibid*.
- 94. A patentee of a flouring mill of a certain structure, has an exclusive right to make and use such mill, but he can claim no monopoly in the sale of the flour he manufactures. *Ibid*.

95. If the thing claimed to have been invented has been before made, or

described in any public work, the patent is void. Ibid.

96. The principle of a machine depends upon its peculiar structure, by which

a certain effect is produced. Ibid.

97. To constitute an inventor, it is not necessary to have the manual skill to make the draughts, &c., if the ideas are furnished for producing the result aimed at. By Judge Betts, in Spackman & Kelsey v. A. & E. Higgins & Co. and C. & E. Harvey, U. S. C. C. Southern District of New York, January term, 1847.

98. An inventor may sell* the thing invented before the same shall have been patented, and may stipulate for the sale of his invention before it is completed, without vitiating his claim. By Judge Betts, in Spackman et al. v. Higgins et al., U. S. C. C. Southern District of New York, January term, 1847.

99. Some months before the patent issued, the inventors issued their manufactured goods as patent goods, or *registered* patterns. Now, although "registered pattern" is not a term at law, yet it may well indicate them to be claimed by the inventors as their design, and for which they were preparing to take

out a patent. Ibid.

100. The study of Courts has usually been, and especially since the Patent acts of 1836 and 1839, to carry out the protection of the law to inventors, so as to secure them the full benefit of their inventions. The inventors are bound to notify the public of their claim, by an application for a patent. This is a matter of nicety, and men of great experience are often in difficulty as to the precise mode of getting up their papers. Correspondence ensues between the officers at Washington and the patentee, which consumes time. But if the claim thus put forward, although originally informal, be followed up with reasonable diligence, and if eventually the patent is granted, it excludes strangers interfering in the mean time. *Ibid*.

101. Inventors cannot be stripped of their property—the fruit, oftentimes, of great toil, ingenuity, and expense—by slight and unimportant alterations in the machine; alterations which the description of the invention would of itself naturally, if not necessarily, suggest, without the aid of much ingenuity and skill. By Judge Nelson, in Gibson v. Harris, U. S. C. C. Northern District

of New York, at Chambers, November 10, 1846.

*Provided such sale shall be within two years from the date of the invention, and under circumstances which do not show that it is the intention of the inventor to waive his claim to a patent and dedicate his invention to the public. See act of 1839, sec. 7th.—[Comptler.

102. Under the acts of 1836 and 1839, the earliest invention is to prevail over any subsequent one, unless allowed to go into public use, or on sale, for two years before taking out a patent. By Justice Woodbury, in Allen v. Blunt, U. S. C. C. Mass. District, November term, 1846.

103. An invention, to be as valid as the first, must be seasonably reduced to

practice, and put in use. Ibid.

104. To warrant a patent the invention must be useful, that is, capable of some beneficial use, in contradistinction to pernicious, or frivolous, or worthless. Dickinson v. Hall, 14 Pick. 217.

105. A patented invention is deemed useful if it is not frivolous. The want of utility is good cause for not granting the patent, but not for setting it saide.

Whitney v. Emmett, 1 Bald. 303.

106. A court cannot pronounce a patent worthless merely from the specification, without evidence of any experiments. Case v. Morey, 1 N. Hamp. 347.

107. The provisions of the 10th section of the act of 21st February, 1793, apply only to cases in which a patent has been obtained by fraud, surreptitiously, or by false suggestions, and are intended to protect the public from imposition. Delano v. Scott, Gilpin, 489.

108. A patent issued by the United States, securing the exclusive right to manufacture and use certain medicines, does not authorize a person to administer them in the character of a practising physician; unless he is regularly licensed to practise, and in other respects conforms to the laws of the State where the medicines are administered. Jordan v. Overseers of Dayton, 4 Ham. 294.

109. If a patent is for an improvement, it must be substantially new, and one capable of application by the means pointed out by the patent, specification,

drawing, model, and old machine. Whitney v. Emmett, 1 Bald. 303.

110. And if, by these means, the invention, and the mode of using it, are intelligible to persons of mechanical skill in the subject matter, the requisites of a specification, by the 3d section of the act of 1793, are complied with. *Ibid.*

111. Though a patentee believes himself bona fide to be the original inventor of the improvement patented, yet the fact of his not being so, if it does not constitute a false suggestion in obtaining it, appears to be a sufficient ground for repealing it. Delano v. Scott, Gilpin, 489.

112. Where two patents are granted for the same thing, the second patent is

inoperative until the first is set aside. Jackson v. Lawton, 10 Johns., 23.

113. A patent issued to an assignee stands on the same footing, as to remedy, as if issued to the party originally entitled. Wallace v. Minor, 7 Ham. (Part 1st,) 249.

114. The assignment of a patent, though not recorded in the office of the Secretary of the United States,* is still valid, except as against creditors and subsequent purchasers without notice. Holden v. Curtis, 2 N. Hamp. 61.

115. A mere nominal variance between the patent itself and the description of it in the conveyance, does not make the assignment of it invalid. Nor is the patent itself void, because the elementary principles of it were previously known and used, unless the application of them is similar to others. *Ibid.*

116. A controversy respecting the validity of a patent right is one strictly between the parties immediately concerned, although the public may have an eventual interest in it. Western Williams Cilair 517

eventual interest in it. Wood v. Williams, Gilpin, 517.

- II. Of the specification and description of the invention or discovery, and of the claim.
- 117. No defect or concealment in the specification will avoid the patent, unless it arose from an intention to deceive the public. Whittemore v. Outter, 1 Gallis, 429.

^{*}In the Patent Office. See Act of July 4, 1836, sec. 11th.

118. The patentee must describe in his patent in what his invention consists with reasonable certainty, otherwise it is void for ambiguity. If it be for an improvement in an existing machine, he must, in his patent, distinguish the new from the old, and confine his patent to such parts only as are new; for if both are mixed up together, and a patent is taken for the whole, it is void. How-

ell v. Lewis, 1 Mason, 182.

119. But if the invention is definitely described in the patent, so as to distinguish it from what is before known, the patent is good, although the specification does not describe the invention in such full and exact terms that a person skilled in the art and science of which it is a branch would construct or make the thing invented; unless such defective description or concealment were with intent to deceive the public. *Gray* v. *Osgood*, 1 Peters' C. C. R. 374.

120. If the patent be for an improved machine, or for an improvement of a machine, for the meaning of the terms is substantially the same, then the patent must state in what the improvement specifically consists, and it must be limited to such improvement. Barrett et al. v. Hall et al., 1 Mason, 447.

121. If, therefore, the terms be so obscure or doubtful that the court cannot say which is the particular improvement which the patentee claims, and to what it is limited, the patent is void for ambiguity; and if it covers more than the improvement, it is void, because it is broader than the invention. *Ibid*.

122. Where a combination of machinery already exists up to a certain point, and the patentee makes an addition or improvement to the machinery, he must

confine his patent to the improvement. Ibid.

123. If an invention consists in a new combination of machinery, or in improvements upon an old machine to produce a new effect, the patent should be for the combined machinery or improvements on the old machine, and not for a mere mode or device for producing such effects, detached from the machine.

nery. Ibid.

124. Where a patentee, in his specification, states and sums up the particulars of his invention, and his patent covers them, he is confined to such summary, and he cannot afterwards be permitted to sustain his patent by showing that some part which he claims, in his summing up, as his invention, though not in fact his invention, is of slight value or importance in his patent. His patent covers it; and if it be not new, the patent must be void. *Moody* v. *Fiske et al.*, 2 Mason, 112.

125. A patent for an improvement should describe the machine in use, that it may be known in what the improvement consists. Sullivan v. Redfield et

al., 1 Paine, 441.

126. One had patented "a new and useful improvement in the steam tow boat," but the specification did not mention the invention as an improvement, but simply described a tow boat: Held, that the specification was broader than the patent, and therefore bad. *Ibid*.

127. The invention should be so clearly described as to enable the public to

put it in use. Ibid.

128. The specification described the invention as "consisting essentially in attaching the packet to the steamboat, with ropes, chains, or spars, so as to communicate the power of the engine from the towing vessel to the vessel taken in tow, and kept always at convenient distance; the manner of applying the power varying with the circumstances in some measure:" Held, bad for uncertainty. *Ibid.*

129. It is for the jury to decide whether the specification discloses the whole truth relative to the discovery, or whether any thing material has been concealed with intent to deceive. Reutgers v. Kanowers et al., 1 Wash. C. C. R.

168. Evans v. Eaton, 1 Peters' C. C. R., 828. Gray et al. v. James et al., 1 Peters' C. C. R. 394.

130. It is not enough that the thing designed to be embraced by the patent should be made apparent on the trial, by a comparison of the new with the old machine. The patent or specification must distinguish the new from the old, so as to point out in what the improvement consists. Dixon v. Moyer, 4 Wash. C. C. R. 68.

131. The schedule annexed to letters patent is part of the patent, so far as it is a description of the machine, but no farther. *Evans* v. *Eaton*, 1 Peters' C. C. R. 322.

132. The grant of an exclusive privilege by the patent can be only for the

discovery recited and described in the patent and specification. Ibid.

133. In the present case, the patent and specification claimed for the patentee, as his invention, the cutting of ice of a uniform size by means of an apparatus worked by any other power than human. It claimed, also, not only the invention of this art, but also the particular method of the application of the principle, stated in the specification, which was by two machines described therein called the saw and the cutter. It was held by the court, that the specification, so far as it claimed the art of cutting ice by means of an apparatus worked by any other power than human, was the claim of an abstract principle, and void; but so far as it claimed the two machines described in the specification, it might be good, if a disclaimer were made of the other parts, according to the Patent act of 1837, ch. 45, § 7 and § 9, within a reasonable time, and before the suit were brought. But a disclaimer, after the suit brought, would not be sufficient to entitle the party to a perpetual injunction in equity, whatever might be his right to maintain a suit at law on the patent. Wyeth v. Stone, 1 Story, 273.

134. If the patentee has assigned his patent in part, and a joint suit is brought in equity for a perpetual injunction, a disclaimer by the patentee alone, without the assignee uniting in it, will not entitle the parties to the benefit of the 7th

and 9th sections of the act of 1837, ch. 45. Ibid.

135. A single patent may be taken for several improvements on one and the same machine, or for two machines, which are invented by the patentee, and conduce to the same common purpose and object, although they are each capable of a distinct use and application, without being united together. But a single patent cannot be taken for two distinct machines, not conducing to the same common purpose or object, but designed for totally different and independent objects. *Ibid.*

136. An inventor is bound to describe in his specification in what his invention consists, and what his particular claim is. But he is not bound to any precise form of words, provided their import can be clearly ascertained by fair

interpretation, even though the expressions may be inaccurate. It

137. A disclaimer, to be effectual for all intents and purposes, under the set of 1837, ch. 45, (§ 7 and 9,) must be filed in the Patent Office before the suit is brought. Unless it is filed before the suit, the plaintiff will not be entitled to recover costs in such suit, even if he should establish at the trial that a part of the invention, not disclaimed, had been infringed by the defendant. And where a disclaimer has been filed, either before or after the suit is brought, the plaintiff will not be entitled to the benefit thereof, if he has unreasonably neglected or delayed to enter the same at the Patent Office; but an unreasonable neglect or delay will constitute a good defence and objection to the suit. Reed v. Cutter, 1 Story, 590.

138. Where an invention is so loosely and inaccurately described in the specification that the court cannot, without resorting to conjecture, gather what it is,



then the patent is void; but if the court can clearly see the nature and extent of the claim, however imperfectly and inartificially it may be expressed, the

patent is good. Ames v. Howard, 1 Sumner, 482.

139. A patent contained the following words in the description of the invention: "I do not claim the felting, vats, rollers, presses, wire-cloth, or any separate parts of the above described machinery or apparatus, as my invention; what I do claim as new, and as my invention, is the construction and use of the peculiar cylinder above described, and the several parts thereof in combination for the purpose aforesaid." Held, that it is not the cylinder alone, or its several parts, which are claimed per se; but they are claimed in their actual combination with the other machinery to make paper. Ibid.

140. Under the former law, a patent was void, if the patentee claimed more

than he had invented. Stanley v. Whipple, 2 McLean, 35.

141. Where the plaintiff, in a patent for "a new and useful improvement in the ribs of the cotton gin," claimed, as a part of his invention, the increasing the space between the upper and lower surface of the rib, either "by making the ribs thicker at that part, or by a fork, or by any other variation of the particular form," it was held, that the claim was sufficiently accurate as a matter of law, and that it was not necessary that he should describe all possible modes by which the rib might be varied, but only the most important, and that mere formal variations therefrom would be violations of the patent. Carver v. Braintree Manufacturing Co., 2 Story, 432.

142. Where the original patent was for "a new and useful improvement in the ribs of saw gins for ginning cotton," and the renewed patent was for "a new and useful invention in the manner of forming the ribs of saw gins for ginning cotton," and in the renewed patent was claimed, in addition to the thickness of the rib, the sloping up of it so as to leave no shoulder, it was held, that the claim in the renewed patent was not for two distinct improvements, but for additional parts of the same improvement, and that the same thing was

patented in both patents. Ibid.

143. Where the plaintiff, in the specification of his patent, described his invention to be "a new and useful improvement," whereas, in fact, it consisted of a combination of several improvements, distinctly set forth in the specification, it was held, that the patent was good, not only for the combination, but for each distinct improvement, so far as it was his invention; and that the descriptive words were to be construed in connection with the specification. Pitts v. Whitman, 2 Story, 609.

144. Where the plaintiff claimed, as his invention, "the construction and use of an endless apron, divided into troughs and cells, in a machine for cleaning grain, operating substantially in the way described," it was held, that the claim was for a combination of the endless apron with the machine for cleaning grain; and that, if the combination were new, it was patentable, although a part of

the apparatus were old. Ibid.

145. Drawings, not referred to in the specification of a patent, may be treated as part of the specification, and used to explain and enlarge it. Washburn

v. Gould, 3 Story, 122.

146. The Court will give a liberal construction to the language of all patents and specifications; and will in all cases, by taking the whole together, adopt that interpretation of a specification, which will give the fullest effect to the nature and extent of the claim made by the inventor. Ryan v. Goodwin, 3 Sumner, 514.

147. The inventor of a new compound, wholly unknown before, is not limited to the use always of the same precise ingredients in making that compound; and if the same purpose can be accomplished by him by the substitution in

part of other ingredients in the composition, which have never been so used before, he is at liberty to extend his patent so as to embrace them also. Thus, where an inventor claimed as his invention the combination of phosphorus with chalk, or any other absorbent earth or earthy material, and glue, or any other glutinous substance, using the materials in the proportions substantially as set forth in the specification, in making matches; it was held, that the patent was not void as being too broad and comprehensive. *Ibid.*

148. An original patent being destroyed by the burning of the Patent Office, and the only record of the specifications being a publication in the Franklin Journal, the claim is not limited by that publication, because the whole of the specifications are not set forth in it. Simpson v. West Chester Railroad Co.,

4 Howard, 380.

149. In the case of Woodworth's planing machine, the patent granted to the administrator was founded upon a sufficient specification and proper drawings,

and is valid. Wilson v. Rosseau, 4 Howard, 646.

150. In order to obtain a patent, the specification must be in such full, clear, and exact terms, as to enable any one skilled in the art to which it appertains to compound and use the invention, without making any experiments of his own. Wood v. Underhill, 5 Howard, 1.

151. If the patent be for a new composition of matter, and no relative proportions of the ingredients are given, or they are stated so ambiguously and vaguely that no one could use the invention without first ascertaining, by experiment, the exact proportion required to produce the result, it would be the duty of the court to declare the patent void. *Ibid*.

152. But the sufficiency of the description in patents for machines, or for a new composition of matter, where any of the ingredients do not always possess exactly the same properties in the same degree, is generally a question of fact

to be determined by the jury. Ibid.

153. Where a patent was obtained for a new improvement in the mode of making brick, tile, and other clay ware, and the process described in the specification was, to mix pulverized anthracite coal with the clay before moulding it, in the proportion of three fourths of a bushel of coal-dust to one thousand brick, some clay requiring one-eighth more, and some not exceeding half a bushel, this degree of vagueness and uncertainty was not sufficient to justify the court below in declaring the patent void. *Ibid*.

154. The court should have left it to the jury to say, from the evidence of persons skilled in the art, whether the description was clear and exact enough

to enable such persons to compound and use the invention. Ibid.

155. If the patentee claims, as a part of his invention, some things which are old, and some new, he cannot succeed, without disclaiming what is old. Hovey

v. Stevens, 1 Woodbury, 290.

156. It should appear also, with reasonable certainty, whether the complainant in his patent claims a new combination of old parts and things, or a new invention of new parts, and if not intelligible as to which is claimed, the patent may be void for uncertainty. *Ibid*.

157. It is the duty of the court, rather than the jury, to construe the language used in a specification of a patent, if no parol evidence is offered in explanation,

or none which is contradictory. Davoll v. Brown, 1 Woodbury, 53.

158. If a patentee claims more than he has invented, his patent is not void, as under the former law, but so far as his invention goes he is protected. *Peterson* v. *Wooden*, 3 McLean, 248.

159. But where the patent is for the improvement of a machine, the patentee

must show in what the improvement consists. Ibid.

160. The thing invented must be accurately described. Boyd v. McAlpen, 3 McLean, 427.



161. The specifications of an improvement of a machine must be so clear as to enable a person acquainted with the structure of such a machine to build

ne. Brooks & Morris v. Jenkins et al., 3 McLean, 250.

162. If the claim of the patentee on letters patent do not expressly refer to another portion of his specification, he will be confined to the particular thing specifically described in his claim; but if he do refer to another portion of the specification for a definition of his invention, such portion of the specification becomes a part of his claim, as really as if it had been incorporated into it in the very words of the part referred to. By Judge Sprague, in Hovey v. Stevens, U. S. C. C. Mass. District, November term, 1846.

163. Amendments to the specification made upon a re-issue of letters patent came to the benefit of the grantees of rights under said letters patent, as well as to the patentee. By Judge Kane, in Smith & Sloat v. Mercer and Pechin,

U. S. C. C. Eastern District of Pennsylvania, October term, 1846.

164. If an amended specification describes a different improvement from that which was embraced in the original patent, the new patent will not be invalidated by variance. For the purpose of an injunction, if for nothing else, the invention must be taken to be the same in both patents, after the Commissioner of Patents has so decided by granting a new patent. *Ibid.*

165. It is not necessary under our Patent laws, as in England, that the disclosure of the secret, in the specification, should be such as to enable the public to use the invention after the Patent has expired. Whitney v. Emmett, 1

Bald. 303.

166. If there be a false suggestion in any of the several material facts set forth in a specification, the patent is invalid. *Delano* v. *Scott*, Gilpin, 489.

167. A patent for an improvement in a machine, must describe the machine in use of which it is an improvement, so that it may be known in what the improvement consists; and a note given for a patent defective in that respect is void for the want of a consideration. Cross v. Huntly, 13 Wend. 385.

III. Of the infringement of patent rights; and of damages.

168. The act of January 21st, 1808, ch. 117, for the relief of Oliver Evans, does not authorize those who erected his machinery, between the expiration of his old patent and the issuing of the new one, to use it after the issuing of

the latter. Evans v. Jordan et al., 9 Cranch, 199.

169. A, having obtained a patent for a new and useful improvement, to wit, a machine for making watch chains, brought an action under the 3d section of the Patent act of April 17, 1800, c. 179, against B, for an alleged violation of his patent right. On the trial an agreement was proved between the defendant and C, by which the former agreed to purchase of the latter all the watch chains, not exceeding five gross a week, which he might be able to manufacture in six months, and C agreed to devote his whole time and attention to the manufacture of the watch chains, and not to sell or dispose of any of them so as to interfere with the exclusive privilege secured to the defendant of purchasing the whole quantity which it might be practicable for C to make: and it was proved that the machine used by C with the knowledge and consent of the defendant, in the manufacture, was the same as that invented by the plaintiff, and that all the watch chains thus made by C were delivered to the defendant according to the contract. Held, that if the contract was real and not colorable, and if the defendant had no other connexion with C than that which grew out of the contract, the facts proved did not amount to a breach by him of the plaintiff's patent right. Keplinger v. De Young, 10 Wheat. 358.

170. Such a contract, connected with evidence from which the jury might legally infer, either that the machine to be employed in the manufacture of the

patented article was owned wholly or in part by defendant, or that it was hised to defendant for the time specified, under color of a sale of the articles to be manufactured with it, and with intent to invade the plaintiff's patent right, would amount to a breach of his right. *Ibid*.

171. Under the Patent act of February 21, 1793, ch. 156, if the patentee has sold out a moiety of his patent right, a joint action lies by himself and his

patentee for a violation of it. Whittemore v. Cutter, 1 Gallis. 429.

172. If there be a mere making and no user proved, nominal damages are to be recovered. Where the law gives an action for a particular act, that doing the act imports of itself a damage: every violation of a right imports some damage, and if none other be proved, the law allows a nominal damage. *Ibid. Whittemore* v. *Cutter*, 1 Gallis. 476.

173. By the terms "actual damage," which the plaintiff may recover under the Patent law, are meant such damages as he can actually prove, and has in fact sustained, as contradistinguished from mere imaginary or vindictive damages, which in personal torts are sometimes given. *Ibid*.

174. The rule of damages, where the user of a machine is proved, should be the value of the use of such a machine during the time of the illegal

user. Ibid.

175. In an action for a violation of a patent right, the plaintiff can recover

for actual damages only, and not for a vindictive recompense. Ibid.

176. Where merely the making of the machine is proved, as no actual damages have been sustained, the jury should give only nominal damages. *Ibid.*

177. The jury are to estimate the plaintiff's single damages, and the court will treble them in awarding the judgment. *Ibid. Gray and Osgood* v. *James*, 1 Peters' C. C. R. 394.

178. The sale of the materials of a patented machine by the sheriff, on an execution against the owner, is not such a sale as subjects the sheriff to an action for an infringement of the patent right under the Patent act of April 17, 1800, ch. 179. Sawin et al. v. Guild, 1 Gallis. 485.

179. The making of a patented machine to be an offence within the purview of the Patentact, must be the making with intent to use for profit, and not for the mere purpose of philosophical experiment, or to ascertain the verity and exactness of the specification. *Ibid.* See, also, *Wittemore* v. *Cutter*, 1 Gallis. 478.

180. In an action for the infringement of a patent right, the law gives to the plaintiff treble the actual damages sustained by him: and the rule is to allow him treble the amount of the profits actually received by the defendant, in consequence of his using the plaintiff's invention. Lowell v. Lewis, 1 Mason, 182.

181. The jury are to find the single damages, and the court to treble them in awarding judgment. Gray et al. v. James et al., 1 Peters' C. C. R. 394.

182. The statute declares it to be a good defence to an action for the infringement of the patent right, that the thing secured by the patent was not originally discovered by the patentee, but had been in use, or had been described in some public work, anterior to the supposed discovery of the patentee. Kneass v. The Schuylkill Bank, 4 Wash. C. C. R. 106.

183. Any patent may be defeated by showing that the thing secured by the patent had been discovered and put into actual use prior to the discovery of the patentee, however limited the use or the knowledge of the prior discovery

might have been. Ibid.

184. A patent may be for a new combination of machines to produce certain effects; and this whether the machines constituting the combination be new or old. But in such case, the patent being on the combination only, it is no infringement of the patent to use any of the machines separately, if the whole combination be not used. Barret et al. v. Hall et al., 1 Mason, 447.

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165. Where a party claims several distinct and independent improvements in the same machine, and procures a patent for them in the aggregate, he is entitled to recover against any person who shall use any one of the improvements so patented, notwithstanding there has been no violation of the other improve-

ments. Moody v. Fiske et al., 2 Mason, 112.

186. Where a patent is for a new combination of existing machinery or machines, and does not specify or claim any improvements or invention, except the combination, unless that combination is substantially violated, the patentee is not entitled to any remedy, although parts of the machinery are used by another; because the patent, by its terms, stands upon the combination only. *Ibid*.

187. The jury may, in a case for infringing a patent, give the plaintiff, as part of his actual damage, such expenses for counsel fees, &c., as have been necessarily incurred in vindicating the plaintiff's right by a suit, and which are not taxable in the bill of costs. Boston Manufacturing Company v. Fiske et al., 2 Mason, 119.

188. Where the patentee grants the machine, or agrees to deliver it, he cannot recover damages for the use of it against his grantee; for the agreement implies necessarily the right to use it in any manner the grantee pleases, or to rent it to another. Gray et al. v. James et al., 1 Peters' C. C. R. 394.

189. Where a suit is brought against A and B for the infringement of a patent right, the plaintiff may recover against one, though no proof is given against the other; for all torts are joint and several, and plaintiff may recover

against one defendant, though the other be acquitted. Ibid.

190. In order to entitle the plaintiff to recover for a violation of his patent right, the fact must be made out to the satisfaction of the jury, that he was the original inventor in relation to every part of the world: nor is it material, provided the same invention had been previously made any where else, that the plaintiff knew of such prior discovery. Dawson v. Follen, 2 Wash. C. C. R. 311.

191. Under the act of Congress of January 21, 1808, ch. 117, and a patent taken out pursuant to it, Oliver Evans might recover damages for the use of a machine violating his patent, after notice of the patent, although the machine might have been constructed prior to the passing of the law. Evans v. Weiss, 2 Wash. C. C. R. 342. 3 Hall's Am. L. Journ. 108, S. C.

192. Under the general Patent law, the plaintiff has a right to recover against a person who erected a machine prior to the issuing of a patent, and made use

of it afterwards. Ibid.

193. The patentee of an invention, notwithstanding he had given the benefit of his invention to another, may recover for the violation of his patent, not having assigned away his whole title and interest in it, and no deed of assignment having been recorded in the office of the Secretary of State. Park v. Little et al., 3 Wash. C. C. R. 196.

194. It is not a defence that the plaintiff was not himself the original projector of the improvement, if the patent was taken out with the knowledge and assent of the original projector, and not in fraud of his right. Dixon v. Moyer,

4 Wash. C. C. R. 68.

195. The plaintiff must in all cases prove an infringement of his right subsequent to the date of his application, or patent; but if the defendant attempts to avoid the patent, by showing that the plaintiff was not the original discoverer, the patent will be considered as relating back to the original discovery. *Ibid.*

196. It lies on the defendant to show that some other person than the patentee was the original inventor, it is the point of his defence, and he must substantiate it. *Ibid*.

197. One who has obtained a patent for a combination cannot recover in an action against one for using one of the known machines of which the combina-

tion is formed. Evans v. Eaton, 1 Peters' C. C. R. 322.

198. Where the plaintiff claimed the combination of three things, as his invention, in a patent for an improvement in the construction of ploughs, it was held, that the patent was for the entire combination of the three, and not for a combination of any two of them; and, therefore, it was no infringement of the patent to construct ploughs containing two of them. *Prouty* v. *Draper*, 1 Story, 568.

199. If the defendants use a substantial part of the invention patented, although with some modifications of form or apparatus, that is a violation of the patent right. So, if the patent be of two machines, and each is a new invention, and the defendant use only one of the machines. Wyeth v. Stone, 1 Story, 273.

200. Where a patent was taken out for a combination and an entire process, it was held, that the use of a part of the process and combination was not an in-

fringement thereof. Howe v. Abbott, 2 Story, 190.

201. In causes for violation of a patent, the jury are at liberty to give such reasonable damages as shall vindicate the rights of the patentee, and shall indemnify him for all expenditures necessarily accrued in the suit beyond what the taxable costs will repay. Pearson v. The Eagle Screw Co., 3 Story, 402.

202. The plaintiffs, in the circuit court, claimed damages for the infringement of their patent for a "new and useful improvement in the construction of a plough." The claim of the patentees was for the combination of certain parts of the plough, not for the parts separately. The circuit court charged the jury, that unless it is proved that the whole combination is substantially used in the defendant's ploughs, it is not a violation of the plaintiff's patent; although one or more of the parts specified in the letters patent may be used in combination by the defendant. The plaintiffs, by their specification and summing up, treated the parts described as essential parts of their combination, for the purpose of brace and draught; and the use of either alone by the defendant would not be an infringement of the combination patented. Held that the instructions of the

circuit court were correct. Prouty v. Ruggles, 16 Peters', 336.

203. The patent is for a combination, and the improvement consists in arranging different portions of the plough, and combining them together in the manner stated in the specification, for the purpose of producing a certain effect. None of the parts referred to are new, and none are claimed as new; nor is any portion of the combination less than the whole claimed as new, or stated to produce any given result. The end in view is proposed to be accomplished by the union of all, arranged and combined together in the manner described; and this combination, composed of all the parts mentioned in the specification, and arranged with reference to each other, and to other parts of the plough, in the manner therein described, is stated to be the improvement, and is the thing patented. The use of any two of these parts only, or of two combined with a **third, which is substantially** different in the form, or in the manner of its arrangement and connection with the others, is, therefore, not the thing patented. It is not the same combination, if it substantially differs from it in any of its parts. Ibid.

204. An assignee of an exclusive right to use two machines within a particular district can maintain an action for an infringement of the patent within that district, even against the patentee. Stimpson v. Westchester Railroad Co., 4

Howard, 380.

205. An assignment of an exclusive right to use a machine, and to vend the same to others for use, within a specified territory, authorizes the assignee to



vend elsewhere, out of the said territory, the product of said machine. Stimpson v. Wilson, 4 Howard, 709.

206. The restriction upon the assignee is only that he shall use the machine within the specified territory. There is none as to the sale of the product. *Bid.*

207. The decision of the court in the two preceding cases, namely, that where a patent is renewed under the act of 1836, an assignee under the old patent has a right to continue the use of the machine which he is using at the time of the renewal, again affirmed. Wilson v. Turner, 4 Howard, 712.

208. An objection to the validity of Woodworth's patent for a planing machine, namely, that he was not the first and original inventor thereof, is not sustained by the evidence offered in this case. Woodworth v. Wilson, 4 Howard, 712.

209. Nor is the objection well founded, that the specifications accompanying the application for a patent are not sufficiently full and explicit, so as to enable a mechanic of ordinary skill to build a machine. *Ibid*.

210. The sale of the product of a patented machine is not an infringement of the

right. Boyd v. McAlpen, 3 McLean, 427.

211. But if the person who sells is connected with the use of the machine, it

may be an infringement. Ibid.

212. Woodworth's right consists of a combination of known mechanical powers. *Ibid*.

213. The use of any part of these, less than the whole, is no infringement. *Ibid*.

214. A patent right is infringed, by making the thing patented, though employed by another to do so. Boyce v. Dorr, 3 McLean, 582.

215. But where the thing was made without the knowledge of its having been

patented, more than nominal damages should not be given. Ibid.

216. To indemnify a patentee in damages, the jury may allow actual cost and counsel fees, if reasonable in amount; and this court, under the act of Congress, will award treble what is found by the jury, if deemed proper to protect useful inventors from combinations and ruin. By Justice Woodbury in Allen v. Blunt, U. S. C. C. Mass. district, Nov. term, 1846.

217. A court will not set aside a verdict for alleged excessive damages, un-

less they are large and palpably unreasonable. Ibid.

218. The provisions of the 6th section of the act of 21st February, 1793, are intended to declare the defence that shall be available to a party charged by a restanted with a widelier of his right.

patentee with a violation of his right. Delano v. Scott, Gilpin, 489.

219. The prior knowledge and use of an invention which avoids a patent relates to the time of the application, not the discovery; and to public use, with the knowledge and privity of the patentee, not to a private or surreptitious use, in fraud of the patent. Whitney v. Emmett, 1 Bald. 303.

220. If the application is made in a reasonable time after the discovery, an intermediate knowledge or use will not, of itself, affect the patent. The inven-

tion, however, must be new to all the world. Ibid.

221. If the patent is broader than the invention, or if it is not sufficiently descriptive, taken in connection with the specification, the plaintiff cannot recover in an action for its violation. If, however, the patent is too broad in its general terms, it may be limited by a surrender and a disclaimer, if they show the thing intended to be patented, and that no claim is made to any thing before known or used. Whitney v. Emmett, 1 Bald. 303.

222. In an action, in the circuit court of the United States, for the violation of a patent, the court cannot give judgment declaring the patent void, only in the cases provided for in the 6th section of the act of 1793. If the patent is defective for any other cause, the court can only render judgment generally for

the defendant. Ibid.

233. A mere workman, employed by a person who is not the patentee to make parts of a patented machine, is not liable to a penalty, under the statute of 21st of February, 1793. Delano v. Scott, Gilpin, 489.

IV. Of the proceedings and pleadings in actions for violations of Patent rights.

224. In the case of a rule before the district judge to show cause why a patent shall not be repealed, a record is to be made of the proceedings antecedent to the rule to show cause why process should not issue to repeal the patent, and upon which the rule is founded. Ex parte Wood, 9 Wheat. 603.

225. Under the Patent act of February 21, 1793, ch. 156, if the patentee has sold out a moiety of his patent right, a joint action lies by himself and his pat-

entee for a violation of it. Whittemore v. Cutter, 1 Gallis. 429.

226. The proceedings under the tenth section of the Patent act of February 21, 1793, ch. 156, are in the nature of a scire facias at common law to repeal Stearns v. Barret, 1 Mason, 153. a patent.

227. Upon a judgment rendered in the district court on such a suit, error lies

to the circuit court. Ibid.

228. The scire facias in such case ought to contain a direct allegation or suggestion that the patent was obtained surreptitiously or upon false suggestion, and to call upon the defendant, for that cause only, to show cause why the

patent should not repealed. Ibid.

229. On an application for an injunction to restrain the infringement of a patent right, it should be stated, in the bill or by affidavit, that the complainant is the inventor, and the bill must be sworn to: it is not sufficient that this fact was sworn to when the patent was obtained. Sullivan v. Redfield et al., 1 Paine, 441.

230. To obtain the injunction, the case should be such as to leave little if any doubt in the mind of the court as to the validity of the patent; especially if it rests upon the complainant's own showing, without any opposing testimo-

231. The act of February 15th, 1819, c. 430, does not alter the principles on which injunctions are issued, but merely extends the jurisdiction of the circuit

courts to parties to whom it did not before extend.

232. The established rules which govern courts of equity on such applications are, that where there has been an exclusive possession of some duration under the patent, an injunction will be granted without putting the party previously to establish the validity of his patent at law; but when the patent is recent, and it is attempted to be shown that the specification is bad, or otherwise that the patent ought not to have been granted, the court will not take the decision upon itself, but will send the party to establish his patent at law. Ibid.

233. In an action for the violation of a patent right, the declaration need not aver that the preliminary steps to obtain a patent were taken; because, if it aver that the patent was granted in the form prescribed by law, the court, upon demurrer, will presume that every thing was rightly done to obtain it. tors of Fulton v. Myers, 4 Wash. C. C. R.

234. But it is fatal, on general demurrer, if the declaration omit to aver that a patent did issue; it is not sufficient to allege it was made out in due form, under the seal and in the name of the United States, by which there was The law prescribes that the patent so made out shall be delivergranted, &c. ed to the petitioner, and that no person can receive it till he has taken the oath and made the disclosure required in the second section.



235. It is necessary to aver the attestation of the President, and it is not to be presumed from the foregoing general allegation. *Ibid.*

236. The certificate of the attorney general forms no part of the patent. *Ibid.* 237. It is not necessary that the declaration should particularly designate in what the improvement consists; it is sufficient that the breach stated be as broad as the right set forth in the declaration and granted in the patent. *Ibid.*

238. In an action for the violation of a patent, where the patent and specification are so ambiguous as to leave it uncertain whether the grant is for an improvement in the making a certain instrument, or in the mode of using it, the affidavit may be referred to for the purpose of explanation. Pettibone v. Derringer, 4 Wash. C. C. R. 215.

239. An action for the violation of a patent right may be sustained against a corporation, if, when acting in that character, it directs an act to be done which infringes the patent. Kneass v. The Schuylkill Bank, 4 Wash. C. C. R. 9, 106.

240. Upon a plea of not guilty, the plaintiff must prove, not only that the defendant has made a machine, but that it substantially resembles that for which the plaintiff had a patent. Dixon v. Moyer, 4 Wash. C. C. R. 68.

241. In patent causes, the rule is to grant an injunction on filing of the bill and before a trial at law, if the bill state a clear right, and verifies it by affidavit. Isaacs v. Cooper, 4 Wash. C. C. R. 259.

242. If it state an exclusive possession of the invention, the injunction is granted, though the court may entertain doubts as to the validity of the pa-

tent. *Ibid.*243. But if there be glaring defects in the patent or specification, it is refused. *Ibid.*

244. Where the patent is modern, and objections are made to the patent or specification, the court will not act till the right is established by law, which the court will order. *Ibid*.

245. If the bill does not set forth a possession by the plaintiff of his invention at any particular time, it is defective. *Ibid*.

246. If the answer denies that the defendant uses the plaintiff's invention,

the injunction will be refused. Ibid.

247. In an action for the violation of a patent right, it is sufficient, under the plea of the general issue, for the defendant to give notice that the plaintiff is not the inventor of the machine for which the patent is obtained, if that constitutes the defence, without stating in the defence who was the inventor, or who had previously used the machine. *Evans* v. *Kremer*, 1 Peters' C. C. R. 215.

248. If in such notice the defendant specifies some persons who used the machine, he may prove the use of it by others not named in the notice. *Ibid.*

249. There being no act of Congress conferring on the circuit courts of the United States a right to take cognizance, as a court of equity, of a case under the Patent law, between citizens of the same State, that court cannot take cognizance of such a cause. Livingston et al. v. Van Ingen et al., 4 Hall's Am. L. Journ. 56.

250. The assignee of a patent right, in part or in whole, cannot maintain any suit at law, or in equity, either as a sole or as a joint plaintiff therein, at least as against third persons, until his patent has been recorded in the proper department, according to the requisitions of the Patent Acts. Wyeth v. Stone, 1 Story, 273.

251. The decision of the Commissioner of Patents is conclusive as to the laws and facts arising under an application for a patent, unless it be impeached for fraud or connivance between him and the patentee; or unless his excess of authority be manifest on the face of the papers. Allen v. Blunt, 3 Story, 740.

252. An injunction granted on an original bill, before the surrender of a patent, cannot be maintained upon the new patent, unless a supplemental bill be filed,

founded thereon. Woodworth v. Stone, 3 Story, 749.

253. To support an action at law for the breach of a patent, it is indispensable to prove a breach before the action is brought; but, if the patent right be admitted or established, a bill in equity quia timet will lie for an injunction, upon well grounded proof of any apprehended intention of the defendant to violate it. *Ibid*.

254. The meaning of technical words of art in commerce and manufactures, used in a patent, as well as the surrounding circumstances, which may materially affect their meaning, are to be interpreted by the jury. Washburn v. Gould, 3 Story, 122.

255. Every instrument is to be interpreted by a consideration of all its provisions, and its obvious design is not to be controlled by the precise force of

single words. Ibid.

256. Where a grant was made of a right to construct and use fifty machines within certain localities, reserving to the grantor the right to construct, and to license others to construct, but not to use them therein, it was held, that the grant was of an exclusive right under the statute of 1836, in regard to patents, and that suits were to be brought in the name of the assignees, even though agreed to be at the expense of the grantor. Ibid.

257. Where a patent has been granted, and there has been an exclusive possession of some duration under a patent, an injunction will be granted, without obliging the patentee previously to establish the validity of his patent by an action at law. But it is otherwise, if the patent be recent, and the injunction be resisted on the ground that the patent ought not to have been granted, or is

imperfectly stated in the specification. Ibid.

258. Held, that the patent in the present case was, upon the true interpretation of the specification, a patent for an improved machine. Ibid.

259. In this circuit the practice in patent cases has not been to require the

plaintiff to give security for costs. Woodworth v. Sherman, 3 Story, 171.

260. A motion having been made in arrest of judgment in this case, on the ground that no description of the patent was set forth in the declaration, it was held, that the profert of the letters patent made them, when produced, a part of the declaration, and gave the invention all the requisite certainty. Pitts v. Whitman, 2 Story, 609.

261. An assignee of part of a patent right cannot maintain an action on the case for the violation of the patent. Tyler et al. v. Tuel, 6 Cranch, 324.

262. If the declaration upon an assignment of a patent right omit to state that the assignment has been duly recorded in the State Department, the defect is cured by a verdict for the plaintiff. Dobson v. Campbell, 1 Sumner, 319.

263. Patents and specifications annexed thereto should be construed fairly and liberally, and not subjected to any over-nice or critical refinements. Ames v. Howard, 1 Sumner, 482.

264. Semble, that no previous notice or claim of a right to the exclusive use of an invention is necessary to enable a patentee to maintain an action for an alleged violation of his patent right. Ames v. Howard, 1 Sumner, 482.

265. It is obvious, that many of the provisions of our Patent act are derived from the principles and practice which have prevailed in the construction of the law of England in relation to patents. *Pennock et al.* v. *Dialogue*, 2 Peters' 18.

266. Where English statutes, such for instance as the statute of frauds, and the statute of limitations, have been adopted into our own legislation, the known and settled construction of those statutes, by courts of law, has been

considered as silently incorporated into the acts; or has been received with all the weight of authority. This is not the case with the English statute of monopolies, which contains an exception, on which the grants of patents for inventions have issued in that country. The language of that clause in the statute is not identical with the Patent law of the United States; but the construction of it adopted by the English courts, and the principles and practice which have long regulated the grants of their patents, as they must have been known, and are tacitly referred to in some of the provisions of our own statute, afford materials to illustrate it. *Ibid*, 18.

267. The defendant in the Circuit Court, in his plea, assigned the particular defect supposed to exist in the specification, and then proceeded to answer in the very words of the act, that it does not contain a written description of the plaintiff's invention and improvement, and manner of using it, in such full, clear, and exact terms, as to distinguish the same from all other things before known, so as to enable any person skilled in the art to make and use the same. The plea alleged, in the words of the act, that the prerequisites to issuing a patent had not been complied with. The plaintiffs denied the facts alleged in the plea, and on this issue was joined. At the trial, the counsel for the defendants, after the evidence was closed, asked the Court to instruct the jury, that if they should be of opinion that the defendants had maintained and proved the facts alleged in their pleas, they must find for the defendants. Court refused this instruction, and instructed the jury that the patent would not be void on this ground, unless such defective or imperfect specification or description arose from design, or for the purpose of deceiving the public. the Court: The instruction was erroneous, and the judgment of the Circuit Court ought to be reversed. Grant et al. v. Raymond, 6 Peters', 218.

268. Courts did not, perhaps, at first sight, distinguish clearly between a defence which would authorize a verdict and judgment in favor of a defendant in an action for the violation of a patent, leaving the plaintiff free to use his patent, and to bring other suits for its infringement; and one which, if successful, would require the Court to enter a judgment not only for the defendant in the particular case, but one which declares the patent to be void. This dis-

tinction is now well settled. Ibid.

269. If the party is content with defending himself, he may either plead specially, or plead the general issue, and give the notice required by the sixth section, of any special matter he means to use at the trial. If he shows that the patentee has failed in any of those prerequisites on which the authority to issue the patent is made to depend, his defence is complete. He is entitled to the verdict of the jury, and the judgment of the Court. But if, not content with defending himself, he seeks to annul the patent, he must proceed in precise conformity with the sixth section. If he depends on evidence "tending to prove that the specification filed by the plaintiff does not contain the whole truth relative to his discovery, or that it contains more than is necessary to produce the desired effect," it may avail him so far as respects himself, but will not justify a judgment declaring the patent void; unless "such concealment or addition shall fully appear to have been made for the purpose of deceiving the public;" which purpose must be found by the jury, to justify a judgment of vacatur. Ibid.

270. The defendant is permitted to proceed according to the sixth section, but is not prohibited from proceeding in the usual manner, so far as respects his defence; except that special matter may not be given in evidence on the general issue unaccompanied by the notice which the sixth section requires. The sixth section is not understood to control the third. The evidence of fraudulent intent is required only in the particular case, and for the particular

purpose stated in the sixth section. *Ibid*.

371. Action for an alleged violation of a patent for an improvement in guns

and fire arms. Show v. Cooper, 7 Peters', 202.

272. The 14th and 15th sections of the act of 1836, c. 857, prescribe the rules which must govern on the trial of actions for the violations of patent rights; and these sections are operative, so far as they are applicable, notwithstanding the patent may have been granted before the passage of the act of 1836. Mo-Charg et als. v. Kingsland et als., 1 Howard, 202.

278. A plaintiff, therefore, who claims under an assignment from the administrator, can maintain a suit against a person who claims under the covenant.

Wilson v. Rousseau, 4 Howard, 646.

274. An assignee of the exclusive right to use ten machines within the city of Louisville, or ten miles round, may join his assignor with him in a suit for a violation of the patent right, under the circumstances of this case. Woodworth v. Wilson, 4 Howard, 712.

275. In a suit in equity for the violation of a patent right, an injunction will not be granted before a hearing upon the merits, merely upon proof that the complainant has obtained a patent. Orr v. Littlefield, 1 Woodbury, 13.

276. But proof of undisturbed possession and user of the patent right, for reasonable length of time, by the complainant, is ground for granting an in-

junction. Ibid.

277. It is also ground for granting an injunction, that the complainant has prosecuted other persons for violations of the same patent, and recovered judgment against them; and it makes no difference that such judgment was rendered by agreement of parties, where there was no collusion, or under a specification of this patent, which has been surrendered as defective, and a new one taken out. *Ibid.*

278. An injunction will not be disselved, as a matter of course, on the coming in of the answer, denying the equity of the bill, if the complainant has ad-

duced auxiliary evidence of his right, as in the present case. Ibid.

279. Injunctions cannot be granted in the courts of the United States, without notice, and hence all of them here are special. If the title of the complainant is denied, he must show former recoveries, or long possession, in the case of patents; and in case of waste and trespass, that there are no facts to warrant the denial, or the injunction will be refused till the disputed questions of title

are settled at law. Perry v. Parker, 1 Woodbury, 280.

280. Where a bill in chancery asks for an injunction against the use of a patent stove, and for an account of sales, and on proof of former recoveries of others and long possession, an injunction had been granted, the court will not dissolve it merely on an answer denying the validity of the patent; but will, if requested, direct an issue to be tried at law on that point; or, if not requested, continue the injunction and dissolve it at the next term, if in the mean time a suit at law is not brought to test the title. Orr v. Merrill, 1 Woodbury, 376.

281. An answer is sufficient for this purpose, though it do not set out the names of the persons who used the stove patented, or knew it before the patentee did; nor the names of the places where it was used or known. *Ibid*.

282. But the answer at law should set them out, and so should the answer and notice on which in chancery an issue is asked to be formed and tried at law. *Ibid*.

283. An injunction once granted will not be dissolved on account of any doubts as to the validity of a new patent in such cases, caused by the errors of such officers, if measures are pending in Congress to remove them by legislation. Woodworth v. Hall, 1 Woodbury, 389.

284. An injunction will not be issued against a respondent's using a machine, unless it is proved that he has used it himself, or employed others to use it

for him, or at least has profited by the use of it. Woodserth v. Hall, 1 Wood-

bury, 248.

285. Where long possession of a patent has existed, and frequent recoveries under it, an injunction will be issued, the originality of the invention by the patentee not being denied, unless the letters appear, for some cause, illegal or void. *Ibid*.

286. Where a bill is filed for an injunction against the use of a patent, and the answer denies the use of it, and also the originality of the invention, if the denial is supported by affidavits bringing the originality of the invention into doubt, an injunction will not issue till the parties settle the right in an action, which is pending between them at law, for a violation of the patent, unless the complainant shows, that he has for some time been in the undisturbed use and sale of his patent, or has recovered damages against others for the use of it. Hovey v. Stevens, 1 Woodbury, 290.

287. Nor can a patent be aided in respect to such an use or such recoveries, if it be one useful in respect to another patent for another invention, where such an use and such recoveries have been had, unless it is connected in law with

that patent and is a part of it. Ibid.

288. The court will not enjoin the sale of a similar article under the same patent, in a particular district assigned to an individual, though manufactured in a different district. Boyd v. Brown, 3 McLean, 295.

289. Where license to run a machine patented has been abandoned, the holder of the right may file his bill to injoin the defendant. *Brook* v. *Stolley*, 3 McLean, 523.

290. The license being conditional, if set up by the defendant, he must show

a performance of the conditions on his part. Ibid.

291. If the counsel assert that in his argument he expressed a wish for the Court to instruct the jury on some points, and it was not done, but it appeared that he omitted to state verbally, after the charge had been delivered, that any point had been omitted, or that further directions were desired, a new trial will not be granted. By Justice Woodbury, in Allen v. Blunt, U. S. C. C. Mass. District, November term, 1846.

292. It is not the duty of the Court to instruct the jury on abstract or irrelevant questions, but only on such as arise on the evidence in the case. *Ibid.*

293. If incompetent evidence admitted became immaterial, a new trial will not be granted. *Ibid*.

294. If on the whole case, notwithstanding an erroneous ruling or instruction, the verdict does not seem to have been influenced by them, or to be

against the justice of the case, a new trial will not be granted. Ibid.

295. A motion for an allowance of a bill of exceptions, under the authority given by the Patent act to this Court, in all cases under it, where it seems "reasonable," in order to enable the parties to carry questions contained in it to the Supreme Court, when the damages are less than \$2,000, ought to be granted, in the exercise of a sound discretion as to points which arise in the construction of the Patent law itself, where those are important in their character, and really doubtful, but as to no others. *Ibid.*

296. All proceedings in equity, authorized by the 16th section of the act of July 4th, 1836, and the 10th section of the act of March 3d, 1839, to which the Commissioner of Patents is made a party, must be commenced and prosecuted before some Court of competent jurisdiction in the District of Columbia, no tribunal out of said District having jurisdiction over the person of the Commissioner, as such, and the Patent Office. By Judge Randall, in Prentiss v. Ellsworth, U. S. C. C. Eastern District of Pennsylvania, October term, 1845.

297. An administrator of a patentee residing in one State may commence an

action in the U.S. District Court of another State for the recovery of damages for an infringement of the letters patent, without taking out letters of administration in the latter State. By Judge Kane, in Smith & Sloat v. Mercer & Pechin, U.S. C. C. Eastern District of Pennsylvania, October term, 1846.

298. The same right attaches to the assignee of such administrator. Ibid.

299. An absolute acquiescence by a patentee in the adverse possession and enjoyment of his rights by a stranger would, under ordinary circumstances, for a period much less than six years, offer a strong argument against the grant of an injunction before final decree. By Judge Kane, in Sloat et al. v. Plumpton et als., U. S. C. C. Eastern District of Pennsylvania, October term, 1846.

800. Under the patent laws, the United States are not a party, and cannot be substituted as a party, in a litigation respecting the validity of any rights claim-

ed or denied by virtue of those laws. Wood v. Williams, Gilpin, 517.

301. An action of the case will lie for representations made by the defendant, knowing them to be false, as to the validity of a patent right claimed by him, whereby the plaintiff was induced to purchase. Bull v. Pratt, 1 Conn. 342.

V. Of the evidence in actions for violation of Patent rights.

302. Under the sixth section of the Patent law of February the 21st, 1793, ch. 156, the defendant pleaded the general issue, and gave notice that he would prove at the trial that the machine, for the use of which, without license, the suit was brought, had been used previous to the alleged invention of the plaintiff, at several places which were specified in the notice, or some of them, "and also at sundry other places in Pennsylvania, Maryland, and elsewhere in the United States." The defendant having given evidence as to some of the places specified, held, that evidence as to other places, not specified, was admissable; but that the court possess the power, which will be exercised, to prevent the plaintiff from being injured by surprise. Evans v. Eaton, 3 Wheat. 454. 1 Peters, 322, S. C. 3 Wash. C. C. R. 408.

303. Testimony, on the part of the plaintiff, that the persons, of whose prior use of the machine the defendant had given evidence, had paid the plaintiff for licenses to use the machine since his patent, ought not to be absolutely re-

jected, though entitled to very little weight. Ibid.

804. It is no objection to the competency of a witness, in a patent cause, that he is sued in another action for an infringement of the same patent. Evans

v. Hettick, 7 Wheat. 453.

305. The sixth section of the Patent act of February 21, 1798, ch. 156, which requires a notice of the special matter to be given in evidence by the defendant under the general issue, does not include all the matters of defence of which the defendant may avail himself: and where the question asked was, whether the machine used by the defendant was like the model exhibited in court of the plaintiff's patented machine, it was held that no notice was necessary to authorize the inquiry. *Ibid.*

306. The sixth section of the Patent act does not enumerate all the defences of which the defendant may legally avail himself: he may give in evidence that he never did the act attributed to him; that the patentee is an alien not entitled under the act; or that he has a license or authority from the patentee.

Whittemore v. Cutter, 1 Gallis. 476.

307. It is a presumption of law that, when a patent has been obtained, and the specifications and drawings recorded in the Patent office, every person who subsequently takes out a patent for a similar machine has a knowledge of the preceding patent. Odiorne v. Winkley, 2 Gallis. 51.

308. In this proceeding the defendant's possession of the patent is so far prima facie evidence of his right, as that the onus probandi is cast on the plain-

tiff, who is bound to prove that the patent was obtained surreptitiously or upon

false suggestion. Stearnes v. Barrett, 1 Mason, 153.

309. If a patent has been detained by the plaintiff upon the defendant's refusal to submit to an arbitration, according to the ninth section of the act of February 21, 1793, ch. 156, and the defendant subsequently obtain a patent for the same invention, this is not conclusive proof that the latter was obtained surreptitiously, or upon false suggestion. *Ibid.*

310. The first inventor, who has put the invention in practice, and only he, is entitled to a patent. Every subsequent patentee, although an original inventor, may be defeated of his patent right, upon proof of such prior invention being put into use. Kneass v. The Schuylkill Bank, 4 Wash. C. C. R. 9, 106.

311. In an action for the violation of a patent, the defendant, under the general issue, without notice of the special matter, may give in evidence the act of Congress respecting patents, as well as some other matters than those enumerated in the sixth section; such as alienage of plaintiff, and license by him to use the invention. But he cannot give in evidence that the invention is not new; nor can that circumstance, however apparent, be judicially noticed by the jury. *Ibid.*

312. Under the general issue defendant cannot give evidence of any of the grounds of defence enumerated in the sixth section, but he may make objections to the validity of the patent of a different kind; such as, the want of a specification or written description as required by the third section, or a specification ambigu-

ous and unintelligible, which is the same as no specification. Ibid.

313. Under a notice that the defendant will prove the prior use of the machine in the United States, he will not be permitted to give evidence of a prior use in England. Dixon v. Moyer, 4 Wash. C. C. R. 68.

314. There is no limitation to the period in which the defendant, under the general issue, may give in evidence that the patentee was not the original in-

ventor. Evans v. Eaton, 1 Peters' C. C. R. 322.

315. In an action for an infringement of a patent right, evidence that the invention of the defendant is better than that of the plaintiff is improper, except to show a substantial difference between the two inventions. Alden v. Dewey,

1 Story, 336.

316. Where the defendant offered evidence to show that the invention was not original with the plaintiff, but that the improvement for which he had taken out letters patent had been suggested to him, although the precise mode of carrying it into operation had not been suggested, the court instructed the jury, that the true question was, whether the improvement was substantially communicated to the plaintiff, so that, without more inventive power, he could have applied it, or not. Ibid.

317. In considering the question of the originality of an invention, the oath of the inventor, made prior to the issue of the letters patent, that he was the true and first inventor of the improvement, may be opposed to the oath of a witness in the case, whose testimony is offered to show that the invention was

not original. *Ibid*.

318. It is immaterial whether an assignment of a patent, offered in evidence, was recorded before or after the suit was brought. *Pitts* v. *Whitman*, 2 Story, 609.

319. Objections, that a patented invention is old; or that the specification in a patent does not clearly describe the mode of making the machine; or that the original and the renewed patent are not for the same invention; or that either were obtained with a fraudulent intent; all involve matters of fact, and are for the jury, upon the evidence, to decide. Carver v. Braintree Manufacturing Co., 2 Story, 432.

260. The Patent act contemplates two classes of persons, as peculiarly appropriate witnesses in patent cases, viz.—1st. Practical mechanics, to determine the sufficiency of the specification as to the mode of constructing, compounding, and using the patent. 2d. Scientific and theoretic mechanics, to determine whether the patented thing is substantially new in its structure and mode of operation, or a mere change of equivalents; and the second class is by far the higher and the most important of the two. Allen v. Beant, 3 Story, 740.

Story, 740.

321. Where a bill in equity was brought for an injunction against the defendants, to restrain them from using and selling a planing machine, constructed according to the specification in the plaintiff's patent, it was held, that, after the lapse of time which had occurred since the patent was granted, taken together with the other circumstances of the case, the affidavit of a single witness was not sufficient to outweigh the oath of the patentee, and the general presumption arising from the grant of the letters patent. Woodworth v.

Sherman, 3 Story, 171.

322. On the 26th September, 1835, a second patent was granted, the original patent, granted in 1831, having been surrendered and cancelled on account of a defective specification; the second patent being for fourteen years from the date of the original patent. The second patent was in the precise form of the original, except the recital of the fact, that the former patent was cancelled "on account of a defective specification," and the statement of the time the second patent was to begin to run. It was objected that the second patent should not be admitted in evidence on the trial of the case, because it did not contain any recitals that the prerequisites of the act of Congress of 1836, authorizing the renewal of patents, had been complied with. Held that this objection cannot, in point of law, be maintained. The patent was issued under the great seal of the United States, and is signed by the President, and countersigned by the Secretary of State. It is a presumption of law, that all public officers, and especially such high functionaries, perform their proper official duties, until the contrary is proved. Where an act is to be done, or patent granted upon evidence and proofs to be laid before a public officer, upon which he is to decide, the fact that he has done the act, in granting the patent, is prima facie evidence that the proofs have been regularly made, and were satisfactory. No other tribunal is at liberty to re-examine or controvert the sufficiency of such proofs, when the law has made the officer the proper judge of their sufficiency and The Philadelphia and Trenton Railroad Company v. Stimpson, 14 Peters', 448.

323. Patents for lands, equally with patents for inventions have, in courts of justice been deemed prima facie evidence that they have been regularly granted, whenever they have been produced under the great seal of the Government, without any recitals or proofs that the prerequisites of the acts under which they have been issued have been duly observed. In cases of patents the United States have gone one step further; and as the patentee is required to make outh that he is the true inventor before he can obtain a patent, the patent has been deemed a prima facie evidence that he has made the invention. *Ibid.*

324. To entitle a party to examine a witness in the patent cause, the purpose of whose testimony is to disprove the right of the patentee to the invention, by showing its use by others prior to the patent, the provisions of the Patent act

of 1886, relative to notice, must be strictly complied with. Ibid.

325. The conversations and declarations of a patentee, merely affirming that at some former period he had invented a machine, may well be objected to. But his conversations and declarations, stating that he had made an invention, and describing its details, and explaining its operations, are properly deemed

an assertion of his right at that time as an inventor, to the extent of the facts and details which he then makes known, although not of their existence at an anterior time. Such declarations, coupled with a description of the nature and objects of the invention, are to be deemed a part of the res gestæ, and they are legitimate evidence that the invention was then known and claimed by him; and thus its origin may be fixed, at least as early as that period. Ibid.

326. It is doubtful, whether a mere change in the mode of fastening knives on a cylinder to be ground, or to fasten one instead of several, is a change in structure from an old machine sufficient to justify a patent for it.

Stevens, 1 Woodbury, 290.

327. If the respondent constructed and used his machine before the complainant took out a patent for his, it is not a justification, if he had seen and copied an improvement from the complainants. Ibid.

328. Declarations of a party, made before dispute arose, in connection with acts, may be competent evidence for him, as tending to show what intentions

Hovey v. Stevens, 1 Woodbury, 290.

329. Where Congress granted an extension of the term to an administrator, it was held to be legal, and that the letters of administration need not be produced after such a grant. Woodworth v. Hall, 1 Woodbury, 248.

330. A signature to the patent, and a certificate of copies, by a person calling himself "acting commissioner," is sufficient on its face in controversies between the patentee and third persons, as the law recognises an acting commissioner to be lawful. Ibid.

331. Where evidence is offered to prove, that the "acting commissioner," who signs a patent, was not appointed by the President, it is questionable whether it be competent to admit it in controversies where he is not a party.

Woodworth v. Hall, 1 Woodbury, 389.

332. Under the patent law of 1836, the chief clerk is held to be the "acting commissioner," as well in the necessary absence of the head of the office, as in case of a vacancy de jure. Ibid.

833. Where witnesses differ as to the fact of an infringement, an issue should be directed, or an action at law commenced. Brooks & Morris v. Jenkins et al.

3 McLean, 250.

334. Though the competency of an official letter from the Commissioner of the Patent Office, as evidence, may be questionable, yet if subsequent evidence in the progress of the case rendered it unnecessary to prove the fact for which it was offered, a new trial will not be granted on account of the admission of such letter. By Justice Woodbury in Allen v. Blunt et al., U. S. C. C., Mass. district, Nov. term, 1846.

335. Nor where parol evidence of the contents of a letter was rejected, because no satisfactory proof had been furnished of the loss of the letter, or that it

had come to the possession of the opposite party. Ibid.

336. In a question of fact, addressed to the court, to lay the foundation of secondary evidence of a written paper, a letter will not be presumed to have been received, from the fact that it was put into the post office, if no answer was returned, and the party to whom it was addressed makes affidavit that it never came to hand. Ibid.

337. A former verdict between the parties, on an issue out of chancery, and

on a different matter, cannot be admitted as evidence. Ibid.

338. A deposition should not be taken during the session of the court at which the case is to be tried, except by its order of court, or the consent of parties, or taken merely de bene esse in case of death or absence abroad.

339. Where counsel have acted publicly in former trials of a like cause between the parties, and are still employed, though not one of the counsel whose names appear on the record, if living within a hundred miles of the place where the deposition was taken, and the party and the other counsel do not, he ought to be notified. *Ibid*.

840. A renewal of a patent by a Commissioner with an amended specification is to be presumed to have been made legally; but the presumption may be rebutted by evidence submitted to a jury, if requested. *Ibid.*

341. Where the defendant, in a prima facie case against him, undertakes to show that an invention has been known and used, &c., he must turn the scale

of evidence in his favor. • Ibid.

842. An exemplification of a patent afterwards surrendered and cancelled may be given in evidence to show that an improvement subsequently patented

is not original. Delano v. Scott, Gilpin, 489.

343. In an action for fraud in the sale of a patent, on the ground that A had a prior patent for the same invention, the defendant offered in evidence a written agreement with A, for a valuable consideration, that neither A nor his heirs would thereafter sue or disturb the defendant for a breach of A's patent right, but that the defendant, without molestation, might freely act under his patent right as if A's had never existed. It was held, that this agreement gave to the defendant no right to transfer, and could not be admitted in evidence. Bull v. Pratt, 1 Conn. 342.

344. In an action on the case for fraud in the sale of a patent right, the plaintiff proved that a certain patent had been granted previously to a third person, and then offered parol evidence to show that the defendant's patent was for the same invention. It was held admissible. *Ibid*.

VI. Of the surrender and re-issue of letters patent.

345. One who has patented his invention, cannot take out a new patent for the same invention, until the first is surrendered, repealed, or declared void.

Morris v. Huntingdon, 1 Paine, 348.

346. The obstacle of an invalid patent may be removed by having it declared void after a verdict against it, or by having a vacatur entered ex parte in the Department of State, on a surrender of the patent. But the provisions of the sixth section of the act do not enable a patentee to declare his own patent void; and a verdict in a suit on the second patent, in favor of such patent, does not avoid the first patent. *Ibid.*

847. It seems, that on surrendering a patent and taking out a new one, the latter should be only for the unexpired part of the fourteen years since obtain-

ing the first patent. Ibid.

348. Under the act of 1836, a corrected patent has relation back to the eman-

ation of the defective patent. Stanley v. Whipple, 2 McLean, 35.

349. In such case, a contract to sell the right is made good by the second

patent. *Ibid*

350. The Patent act of 1836, ch. 357, sect. 13, and the act of 1837, ch. 45, sect. 8, authorizing the re-issue of a patent, because of a defective or redundant specification or description, without fraud, or for the purpose of adding thereto an improvement, do not require the patentee to claim, in his renewed patent, all things which were claimed in his original patent, but gives him the privilege of retaining whatever he deems proper. Carver v. Braintree Manufacturing Co., 2 Story, 432.

351. A patentee cannot, by a surrender of his patent, affect the rights of third persons, to whom he has previously assigned his interest in the whole or a part of the patent, unless the assignees consent to the surrender. Woodworth

v. Stone, 3 Story, 749.

352. The decision of the Commissioner of Patents in respect to accepting a

surrender of an old patent, and granting a new one, is not re-examinable elsewhere, unless it appear on the face of the patent that he has exceeded his

authority. Ibid.

353. Where a defect in the specification on which a patent has issued arose from inadvertence or mistake, and without any fraud or misconduct on the part of the patentee, the Secretary of State has authority to accept a surrender of the patent, and cancel the record thereof; whereupon he may issue a new patent, on an amended specification, for the unexpired part of the fourteen years granted under the first patent. Grant et al. v. Raymond, 6 Peters', 218.

354. The great object and intention of the act is to secure to the public the advantages to be derived from the discoveries of individuals; and the means it employs are the compensation made to those individuals for the time and labor devoted to those discoveries, by the exclusive right to make up and sell the things discovered for a limited time. That which gives complete effect to this object and intention, by employing the same means for the correction of inadvertent error which are directed in the first instance, cannot be a departure from the spirit and character of the act. *Ibid*.

355. Quære: What would be the effect of a second patent, issued after an innocent mistake in the specification, on those who, skilled in the art for which it was granted, perceiving the variance between the specifications and the machine, had constructed, sold, and used the machine? This question is not before the Court, and is not involved in the opinion given in the case. The defence, when true in fact, may be sufficient in law, notwithstanding the

validity of the new patent. Ibid.

356. The letters patent were obtained in 1822; and in 1829, the patentee having surrendered the same for an alleged defect in the specification, obtained another patent. This second patent is to be considered as having relation to the emanation of the patent of 1822; and not as having been issued on an original application. Shaw v. Cooper, 7 Peters', 202.

357. The holder of a defective patent may surrender it to the Department of State, and obtain a new one, which shall have relation to the emanation of the

first. Ibid.

358. The case of Grant and others v. Raymond, 6 Peters, 220, cited and affirmed. Ibid.

359. A second patent granted on the surrender of a prior one being a continuation of the first, the rights of a patentee must be ascertained by the law.

under which the original application was made. Ibid.

360. Where a defective patent had been surrendered, and a new one taken out, and the patentee brought an action for a violation of his patent right, laying the infringement at a date subsequent to that of the renewed patent, proof of the use of the thing patented during the interval between the original and renewed patents will not defeat the action. Stimpson v. West Chester Railroad Company, 4 Howard, 380.

361. The seventh section of the act of March 3, 1839, has exclusive reference

to an original application for a patent, and not to a renewal of it. Ibid.

362. Whether a renewed patent, after a surrender of a defective one, is substantially for a different invention, is a question for the jury, and not for the court. *Ibid*.

363. As the thirteenth section of the act of 1836 provides for the renewal of a patent, where it shall be "inoperative or invalid by reason of a defective or insufficient description or specification," "if the error shall have arisen by inadvertence, accident, or mistake, and without any fraudulent or deceptive intention," the fact of the granting of the renewed patent closes all inquiry into

the existence of inadvertence, accident, or mistake, and leaves open only the

question of fraud for the jury. Ibid.

364. The Commissioner of Patents can lawfully receive a surrender of letters patent for a defective specification, and issue new letters patent upon an amended specification, after the expiration of the term for which the original patent was granted, and pending the existence of an extended term of seven years. Such surrender and renewal may be made at any time during such extended term. Wilson v. Rousseau, 4 Howard, 646.

365. A patent surrendered and renewed operates as from the commencement of the original patent, except as to causes of action arising before the renewal.

Woodworth v. Hall, 1 Woodbury, 248.

366. If a mistake occurs in a copy of a patent, it can be corrected without causing any injury; but if it exists in the original patent, it cannot be corrected, so as to avail without the assent or re-signature of the Secretary of State. *Ibid*.

367. But the commissioner, if correcting it, need not re-sign or re-seal the

letters, he being the same officer here who did it before. Ibid.

368. If the mistake corrected be a material one, the letters cannot operate, except on cases arising after it is made. But if a mere clerical one—quere? Ibid.

369. Where a renewal of patents surrendered is void, perhaps the surrender itself becomes also void, and the original patents remain in force. *Ibid.*

370. The sanction of the Secretary of State, to a correction of a clerical mistake in letters patent may be given in writing afterwards; and he need not resignthe letters themselves. *Ibid*, 389.

371. If the correction be of only a clerical mistake, it operates back to the original date of them, unless perhaps as to third persons, who have acquired

intervening rights to be affected by the alteration. Ibid.

372. If a new patent, issued on a surrender of old ones, be void for any cause connected with the acts of public officers, it is questionable whether the original patents must not be considered in force till their terms expire. *Ibid.*

373. Where more is claimed than is invented, a disclaimer must be made in

a reasonble time. Boyd v. McAlpen, 3 McLean, 427.

374. A patentee can legally take out the re-issued patent for more than is described in the surrendered one, if it does not exceed the actual discovery when the patent was taken out. By Judges Nelson and Betts, in Benjamin et al. v. Lowlen et als., U. S. C. C. Southern District of New York, April term, 1846.

375. The alien claim in the 15th section, act of 1836, applies only to alien

patentees, and not to American assignees. Ibid.

376. Held, that a surrender of the original letters patent rendered void all assignments under that patent, so far as regarded those who assented to such surrender; that the new patent, being issued to the administrator, vested in him the legal title, and therefore it was necessary that the plaintiff should have a new assignment before he could maintain an action at law for an invasion of the patent. Gibson v. Richards, U. S. C. C. Northern District of New York, October term, 1845.

VII. Of the extension of letters patent.

377. A legislative grant of an exclusive privilege in an invention, for a definite period, does not imply an irrevocable contract with the people, that at the expiration of the period the invention shall become their property. The legislature may revive the grant; but if they refuse to do so at the end of the period, the invention may be used by any one. *Evans* v. *Eaton*, 1 Peters' C. C. R. 322.

878. The extension of a patent may be granted to an administrator. Wash

burn v. Gould, 3 Story, 122.

379. The Patent act of 1836 authorizes the granting of an extended term of a patent to an administrator, as well as to the patentee. Woodworth v. Sherman, 3 Story, 171.

380. The assignee or grantee, under the original patent, does not acquire any right under the extended patent, unless such right be expressly conveyed

to him by the patentee. Ibid.

381. The eighteenth section of the Patent act of 1836 authorized the extension of a patent on the application of the executor or administrator of a deceas-

ed patentee. Wilson v. Rousseau, 4 Howard, 646.

382. Such an extension does not inure to the benefit of assignees under the original patent, but to the benefit of the administrator (when granted to an administrator) in his capacity as such. But those assignees who were in the use of the patented machine at the time of the renewal have still a right to use it. *Ibid*.

383. The extension could be applied for and obtained by the administrator, although the original patentee had, in his lifetime, disposed of all his interest in the then existing patent. Such sale did not carry any thing beyond the

term of the original patent. Ibid.

384. A covenant by the patentee, made prior to the law authorizing extensions, that the covenantee should have the benefit of any improvement in the machinery, or alteration or renewal of the patent, did not include the extension, by an administrator, under the act of 1836. It must be construed to include only renewals obtained upon the surrender of a patent on account of a defective specification. Parties to contracts look to established and general laws, and not to special acts of Congress. *Ibid.*

385. The decision of the Board of Commissioners, to whom the question of renewal is referred by the act of 1836, is not conclusive upon the question of

their jurisdiction to act in a given case. Ibid.

386. The decision of the court in the preceding case of Wilson v. Rousseau et al., namely, that when a patent is renewed under the act of 1836, an assignee under the old patent has a right to continue the use of the patented machine, but not to vend others, again affirmed. Stimpson v. Wilson, 4 Howard, 709.

387. If a patentee be dead, his administrator may renew the patent. Brooks

& Morris v. Jenkins et al., 3 McLean, 250

388. The board on whose judgment a patent is renewed, is not conclusive as

to the right. *Ibid*.

389. After the extension of a patent, under the 18th section of the act of July 4, 1836, the original patent becomes virtually a patent for the term of twenty-one years; and then, on a surrender and re-issue, with an amended specification, the residue of the period unexpired, of the original patent, is the residue of this term. By Judge Nelson, in Gibson v. Harris, U. S. C. C. Northern District of New York, at Chambers, Nov. 10, 1846.

390. The patent for twenty-one years is to be regarded as the "original patent," within the meaning of the 13th section of the act of July 4th, 1836. *Ibid.*

391. If a patent extended by the Commissioners, under the 18th section of the Patent act, be further extended by Congress for seven years, the extended patent becomes a patent for twenty-eight years, instead of the twenty-one years, and may be surrendered and re-issued with an amended specification. *Ibid.*

392. The provisions of the 18th section of the act of July 4th, 1836, relating to extensions, applies as well to patents granted before the passage of that act, as to those which have been granted since. Wilson v. Turner et al., U. S. C. C.

District of Maryland, November term, 1844.

393. The benefits of an extension enure to the assignees of the patentee, as well as to the patentee himself. *Ibid*.

VIII. Of the repeal of letters patent.

304. Under the tenth section of the Patent act of February 21st, 1793, ch. 156, upon granting a rule by the judge of the district court upon the patenter, to show cause why process should not issue to repeal the patent, the patent is not repealed de facto, by making the rule absolute: but the process to be awarded is in the nature of a scire facias at common law to the patentee, to show cause why the patent should not be repealed with costs of suit; and upon the return of such process, duly served, he proceeds to try the cause upon the pleadings filed by the parties and the issue joined thereon: if the issue be an issue in fact, the trial is to be by a jury; if of law, then by the court. Exparte Wood, 9 Wheat., 603.

395. In such a case, a record is to be made of the proceedings antecedent to the rule to show cause why process should not issue to repeal the patent, and

upon which the rule is founded. Ibid.

396. The sole object of such an arbitration is to ascertain who is, prima facie, entitled to the patent; but when once obtained, the patent is liable to be repealed or destroyed by precisely the same process as if it had been issued with-

out objection. Stearns v. Barrett, 1 Mason, 153.

397. A judgment against a patentee on a scire facias issued to obtain a repeal of a patent vacates the same, but a judgment in his favor will not prevent his right being contested in a suit he may subsequently institute for its violation. Delano v. Scott, Gilpin, 489.

IX. Of abandonment and dedication to public use.

398. Nor will the patent be protected, if the patentee was the inventor of all the material improvements in the old machine, if he suffered them to be used fully and freely by the public at large, combined with all the usual machinery; for in such case he must be deemed to have made a gift of them to the public. Whittmore v. Cutter, 1 Gallis. 476.

399. After a patent has been obtained for an invention or discovery, the disuse of it by the patentee is not an abandonment of the rights of the patentee to the same, but they continue for fourteen years from the date of the patent.

Gray et al. v. Johns et al., 1 Peters' C. C. R. 394.

400. If an inventor knowingly suffers his invention to go into public and general use without objection, it is a dedication of it to the public, and he cannot afterwards resume the exclusive right. *Mellus* v. Silsbee, 4 Mason, 108.

401. Our Patent act differs from the English in several respects. A mere public use by others before taking a patent, on a sale thereof by the inventor, is not decisive against him here as it is in England. *Ibid.* See, also, *Pennock*

et al. v. Dialogue, 2 Peters, 1.

402. In a bill in equity for a perpetual injunction of the defendants, on account of an asserted violation of a patent right for an invention, it is a good defence, that prior to the granting of the patent the inventor had allowed the invention to go into public use without objection. But it should be clearly established by proof, that such public use was with the knowledge and consent of the inventor. The mere user by the inventor of his invention in trying experiments, or by his neighbors with his consent, as an act of kindness for temporary and occasional purposes only, will not destroy his right to a patent therefor. Wyeth v. Stone, 1 Story, 278.

403. If the patentee, after obtaining his patent, dedicates or surrenders it to

public use, or acquiesces for a long period in the public use thereof, without objection, he is not entitled to the aid of a court of equity to protect his patent; and such acquiescence may amount to complete proof of a dedication or surrender thereof to the public. *Ibid*.

404. But to entitle the defendants to the benefit of such a defence, the facts must be explicitly relied on and put in issue by their answer; otherwise the

court cannot notice it. Ibid.

405. To entitle a person to claim the benefit of the 7th section of the Patent act of 1839, ch. 88, he must be a person who is a purchaser, or who has used the patented invention before the patent was issued, by a license or grant, or by the consent of the inventor, and not be a purchaser under a mere wrong-doer. Pearson v. The Eagle Screw Co., 3 Story, 402.

406. The case of McClurg v. Kingsland, (1 How. Sup. Ct. R. 202,) com-

mented on and explained. Ibid.

407. It has not, and indeed it cannot, be denied, that an inventor may abandon his invention, and surrender or dedicate it to the public. This inchoate right, thus gone, cannot afterwards be resumed at his pleasure; for when gifts are once made to the public in this way, they become absolute. The question which generally arises on trials is a question of fact, rather than of law; whether the acts or acquiescence of the party furnish, in the given case, satisfactory proof of an abandonment, or dedication of the invention to the public.

Pennock et al. v. Dialogue, 2 Peters', 16.

408. If an inventor should be permitted to hold back from the knowledge of the public the secrets of his invention; if he should, for a long period of years, retain the monopoly, and make and sell his invention publicly, and thus gather the whole profits of it, relying upon his superior skill and knowledge of the structure; and then, and then only, when the danger of competition should force him to procure the exclusive right, he should be allowed to take out a patent, and thus exclude the public from any further use than what should be derived under it during his fourteen years, it would materially retard the progress of science and the useful arts, and give a premium to those who should be least prompt to communicate their discoveries. *Ibid*, 19.

409. If an invention is used by the public, with the consent of the inventor, at the time of his application for a patent, how can the court say that his case is nevertheless such as the act was intended to protect? If such a public use is not a use within the meaning of the statute; how can the court extract the case from its operation, and support a patent, when the suggestions of the patentee were not true; and the conditions, on which alone the grant was au-

thorized, do not exist? Ibid, 21.

410. The true construction of the Patent law is, that the first inventor cannot acquire a good title to a patent, if he suffers the thing invented to go into public use, or to be publicly sold for use, before he makes application for a patent. This voluntary act or acquiescence in the public sale or use, is an abandonment of his right; or, rather, creates a disability to comply with the terms and conditions of the law, on which alone the Secretary of State is authorized to grant him a patent. *Ibid*, 23.

411. What use by the public, before the application is made for a patent, shall make void the right of a patentee. Shaw v. Cooper, 7 Peters', 202.

412. From an examination of the various provisions of the acts of Congress relative to patents for useful inventions, it clearly appears, that it was the intention of the legislature, by a compliance with the requisites of the law, to west the exclusive right in the inventor only; and that, on condition that his invention was neither known nor used by the public before his application for a patent. If such use or knowledge shall be proved to have existed prior to

the application for the patent, the act of 1793 declares the patent void; and the right of an alien is vacated in the same manner, by proving a foreign use or knowledge of his invention. That knowledge or use which would be fatal to the patent right of a citizen, would be equally so to the right of an alien. Ibid.

413. The knowledge or use spoken of in the act of Congress of 1793, could have referred to the public only; for the provision would be nugatory if it were applied to the inventor himself. He must necessarily have a perfect knowledge of the thing invented, and of its use, before he can describe it, as by law he is required to do preparatory to the emanation of a patent. Ibid.

414. There may be cases in which a knowledge of the invention may be surreptitiously obtained and communicated to the public, that do not affect the right of the inventor. Under such circumstances, no presumption can arise in favor of an abandonment of the right to the public by the inventor: though an acquiescence on his part will lay the foundation for such a presumption. undoubtedly just that every discoverer should realize the benefits resulting from his discovery, for the period contemplated by law. But those can only be reserved by a substantial compliance with every legal requisite. This exclusive right does not rest alone on his discovery, but also upon the legal sanctions which have been given to it, and the forms of law with which it has been clothed. *Ibid*.

415. No matter by what means an invention may have been communicated : to the public before a patent is obtained, any acquiescence in the public use by the inventor will be an abandonment of the right. If the right were asserted by him who fraudulently obtained it, perhaps no lapse of time could give it validity. But the public stand in an entirely different relation to the inventor. His right would be secured by giving public notice that he was the inventor of

the thing used, and that he should apply for a patent. Ibid.

416. The acquiescence of an inventor in the public use of his invention, can in no case be presumed where he has no knowledge of such use. But this may be presumed from the circumstances of the case. This will in general be a fact for a jury: and if the inventor do not, immediately after this notice, assert his right, it is such evidence of acquiescence in the public use, as for ever afterwards to prevent him from asserting it. After his right shall be perfected by a patent, no presumption arises against it from a subsequent use by the pub-

417. A strict construction of the act of Congress, as it regards the public use of an invention before it is patented, is not only required by its letter and spirit,

but also by sound policy. Ibid.

418. The question of abandonment to the public does not depend on the intention of the inventor. Whatever may be the intention, if he suffers his invention to go into public use, through any means whatsoever, without an immediate assertion of his right, he is not entitled to a patent; nor will a patent

obtained under such circumstances protect his right. *Ibid*.

419. The public use or sale of an invention, in order to deprive the inventor of his right to a patent, must be a public use or sale by others, with his knowledge and consent, and before his application therefor. A sale or use of it, with such knowledge or consent, in the intermediate time between the application for a patent and a grant thereof, has no such effect. Ryan v. Goodwin, 3 Sumner, 514.

420. If a person employed in the manufactory of another, whilst receiving wages, makes experiments at the expense and in the manufactory of his employer; has his wages increased in consequence of the useful result of the experiments; makes the article invented, and permits his employer to use it, no compensation for its use being paid or demanded; and then obtains a patent; these facts will justify a presumption of a license to use the invention. M' Clarg

and others v. Kingsland and others, 1 Howard, 202.

421. Such an unmolested and notorious use of the invention prior to the application for a patent, will bring the case within the provisions of the 7th section of the act of 1839, c. 88. *Ibid*.

422. The assignees of a patent right take it subject to the legal consequen-

ces of the previous acts of the patentee.

423. The patentee need not prove that he has hawked his patented article about for a market, and that he has tried to sell it to any person. Those seeking to defeat the patent must prove that the patentee neglected or refused to sell for reasonable prices, when application was made to him. By Judges Nelson and Bette, in Benjamin et al. v. Lowlen et als., U. S. C. C. Southern District of New York, April term, 1846.

424. The first inventor cannot acquire a good title to a patent if he suffer the thing invented to go into public use, or to be publicly sold for use, before he

makes application for a patent. Earle v. Page, 6 N. Hamp. 477.

X. Of assignments of letters patent and patent rights.

425. A patentee of friction matches, by a deed under seal, undertook as follows: "To grant, bargain, sell, convey, assign, and transfer to B, his executors, administrators, and assigns, the right and privilege, hereinafter mentioned, of making, using, and selling the friction matches," patented, and to have and to hold "the right and privilege of manufacturing the said matches, and to employ in and about the same six persons, and no more, and to vend the said matches in any part of the United States." It was held, that this was a license or authority from the patentee, and need not be recorded in the Patent Office, under the Patent act of 1836, ch. 357, sec. 11. Brooks v. Byam, 2 Story, 525.

426. A license need not be recorded in the Patent Office, unless there be some positive provision of the Patent act, which renders it an indispensable

prerequisite to its validity. Ibid.

427. The recording within three months, according to the statute, is merely directory; and any subsequent recording of an assignment will be sufficient to pass the title to the assignee, except as to intermediate bona fide purchasers, without notice. *Ibid.*

428. The Patent act of 1826, ch. 357, sec. 11, provides for the recording of three kinds of assignments, and of no others: first, an assignment of the whole patent; secondly, an assignment of any undivided part thereof; and, thirdly, a grant or conveyance of the exclusive right under the patent within any speci-

fied part of the United States. Ibid.

429. It was held, that the right granted by the above deed was a license or authority, coupled with an interest in the execution, to the grantee and six persons to be employed by him in making matches; that the right was an entirety, incapable of being apportioned or divided among different persons; that, therefore, an assignment by B, of a right to make as many matches as one person could roll up, was void. *Ibid*.

430. Quære, if the license is not such a personal privilege, that the entirety cannot be assigned, notwithstanding it was given to B; and his assigns. Ibid.

431. The act of 1836, ch. 357, sec. 11, relating to the recording of assignments of patents, is merely directory, for the protection of bona fide purchasers without notice, and does not require the recording of an assignment within three months, as a prerequisite to its validity. Pitts v. Whitman, 2 Story, 609.

432. A contract may be made to convey a future invention, as well as a past one, and for any improvement or maturing of a past one. Nesmith v. Calvert,

1 Woodbury, 34.

433. Under the act of 1836, the patentee may assign any part of his right. Boyd v. M'Alpen, 3 McLean, 427.

434. The assignment must be recorded. Ibid.

435. If not recorded, a subsequent assignee, without notice, would hold. *Ibid.*436. A vendor of a patent right, in the bill of sale, described the machine thus: "One machine for cutting, making, and manufacturing combs, like the machines which I use and improve, and such as I have a patent right for." It was held, that this latter clause did not amount to a covenant on the part of the vendor that he had a valid patent right. *Bull* v. *Pratt*, 1 Conn. 342.

CLASS No. I.

AGRICULTURE,

INCLUDING

INSTRUMENTS AND OPERATIONS.

LIST OF PATENTS.

CLASS I .- AGRICULTURE, including Instruments and Operations.

INVENTIONS OR DISCOVERIES.	Patentees.	residence.	WHEN ISSUED.
Agriculture, improvement	Peter Pardee	Trenton, N. Y	Feb. 6, 1829
Apples, gathering	Samuel Laning	Camden, N. J	Nov. 1, 1830
Apples, gathering and cleansing	Elias Ellis	Duxbury, Vt	Dec. 6, 1831
Bee-hive	John Sweet	Bethlehem, Mass	Apr. 11, 1810
Bee-hive	Timothy Stanley	Farmington, Conn	Dec. 9, 1811
Bee-hive	Timothy Stanley	Farmington, Conn	Jan. 6, 1812
Bee-hive	Edward Blake	Hartford, Maine	Nov. 6, 1820
Bee-hive	Simon C. Williams Willam J. Stillwell	Shenandoah co., Va.	May 14, 1823 Mar. 18, 1824
Bee-hive	Cuthbert Wiggins	Root, N. Y Fayette county, Pa.	Feb. 27, 1827
Bee-hive	Samuel Morrill	Dixfield, Maine	Feb. 4, 1834
Bee-hive	Abial Whitman, jr	Londonderry, Vt	Nov. 6, 1834
Bee-hive	Samuel Morrill	Dixfield, Maine	Jan. 16, 1835
Bee-hive	Orlando Mack	Gilsum, N. H	Apr. 22, 1835
Bee-hive	J. M. Hubbard	Canterbury N. H	Feb. 5, 1836
Bee-hive	Ebenezer Beard	New Sharon, Maine	Feb. 25, 1836
Bee-hive	Sturgess M. Judd	Danbury, Conn	Mar. 30, 1836
Bee-hive	John M. Weeks	Salisbury, Vt	June 30, 1836
Bee-hives	Samuel C. Myers	Mount Pleasant, Pa.	July 22, 1839
Bee-hives	John Sholl	New York	Nov. 29, 1839
Bee-hives*	William M. Hall	Wallingford, Ct	Dec. 27, 1839
Bee-hives	Martin Engel	Easton, Pa	Apr. 15, 1840
Bee-hives	Robert Martin Constant Webb	Fairfield, Ohio Wallingford, Ct	May 19, 18 49 May 4,† 1841
Bee-hives	James Le Patourel	Chandlersville, Ohio	June 11, 1841
Bee-hives	John M. Weeks	Salisbury, Vt	July 1, 1841
Bee-hives	Hiram A. Pitts	Winthrop, Maine	Sep. 25, 1841
Bee-hives	Shadrach Trumbull	Suffield, Conn	Apr. 6, 1842
Bee-hives	John Milholland and		
	Ben. Crane	Chandlersville, O	Apr. 29, 1842
Bee-hives	Fred. Wolfersberger	Plymouth, O	May 12, 1842
Bee-hives	James Jones	Galway, N. Y	May 12, 1842
Bee-hives	Daniel H. Farnam	Litchfield, Conn	May 20, 1842
Bee-hives	Elijah Grumman	Norwalk, Conn	May 26, 1842
Bee-hives	Henry Hiser	Wooster, Ohio	June 27, 1842
Bee-hives	James E. Ross	Mount Sidney, Va	July 8, 1842
Bee-hives	Jesse W. Davidson	Rome, Ohio	Sep. 17, 1842 Oct. 12, 1842
Bee-hives	Zachariah R. Hench Edwin Booth	Port Royal, Pa Springfield, Mass	Nov. 28, 1842
Bee-hives	A. Francis & J. Carlyle	Chandlers ville, O	Nov. 28, 1842
Bee-hives	William Bryant	Nashville, Tenn	Dec. 21, 1842
Bee-hives	Wesley McCoy, as-		
200 11110 11111111111111111111111111111	signee of J. Harris .	Clairsville, O	Jan. 27, 1843
Bee-hives	Moreland and Howell	Zanesville, Ohio	
Bee-hives	George Gebhart	Dayton, O	Feb. 20, 1843
Bee-hives	George Dofler	Frederick, Md	Mar. 4, 1843
Bee-hives	Joseph C. Rich	Penfield, N. Y	Mar. 4, 1843
Bee-hives	Edmund Pepple	Canton, O	June 24, 1843
Bee-hives	William D. Miller	Mad River, O	Sep. 1, 1843
Bee-hives	Joseph Miller	Lexington, O	
		III-i-A Minagama Wa	
Bee-hives	Aaron E. James Sam. & J. D. Cope	Point Pleasant, Va Damascusville, O	

^{*} Additional improvement, March 29, 1841.

[†] Ante dated March 12, 1841.

INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHEN ISSUED.
Bee-hives	George B. West	Fairfield, O	Apr. 20, 1844
Bee-hives	James A. Cutting		
Bee-hives	Jacob D. Fulkerson		
Bee-hives	Oliver Reynolds	Webster N V	Dec 4 184
Bee-hives		a a' == a=	Fab 19 194
	Elias Jones	New Haren N V	Mar 96 1245
Bee-hives	Silas Hart		
Bee-hives	Abraham Sanburn	Carthage, O	Tune 00 1046
Bee-hives			June 20, 184
Bee-hives	Israel Lamborn	Marshallton, Pa	Aug. 26, 1844
Bee-hives	Christopher Suydam.		
Bee-hives	James Robb	Lewiston, Pa	
Bee-hives	Aaron Colton	Pittsfield, Vt	Dec. 31, 1843
Bee-hive			Jan. 15, 1846
Bee-hives	William R. Kelsey	Big Steam P'int, N.Y.	
Bee-hive	William Whitcomb		
Bee-hive and bee-houses	John Searle	Hill, N. H	Jan. 20, 1836
Bee-hives, cloth moth harbor for .	Daniel Arndt	W't Middletown, Pa.	
Bee-hives, entrance to	George Upham	Hebron, O	May 1, 1846
Bee-hive and management of becs	Philip Munch		
Bee-hive and management of bees	Abijah Alley	Cincinnati, O	Aug. 26, 1831
Bee-hive and management of bees		Little Falls, N. Y	Sept. 9, 1831
Bee-hive and management of bees		Briton, N. Y	Aug. 6, 1834
Bee-hive slide		Charlestown, Mass.	Mar. 12, 1830
Bee-house			June 12, 1835
Bee-house		Walnut township, O.	
Bees, management of	Francis Kelsey		Aug. 26, 1826
Bees, managing		Wheatfield, N. Y	July 22, 1845
Bee moths, &c., improved lantern		111100000000000000000000000000000000000	July 120, 20, 20, 20
for the destruction of		Hartleton, Pa	Oct. 7, 1846
Bee palaces			July 13, 1844
Bee protectors			Dec. 15, 1843
Binding grain, machines for			
Dinging grain, machines for	Thomas Spring		July 17, 1839 Apr. 27, 1833
Bog and bush cutting	Thomas Spring		
Bogging machine	Squire Collins		Feb. 22, 1827
Broom corn, scraping	Billy J. Billings & J. S.		O-4 15 1091
	Billings		Oct. 15, 1831
Buckwheat, machine for cleaning.	Dan. Pease, jr		July 14, 1846
Buds, delaying from blossoming.	Robert Moore	Rowan county, N.C.	
Butter, making	B.G.Burtis & G. Burtis	New York	Feb. 27, 1807
Butter, making	Isaac Shepherd		May 28, 1818
Butter, making from lard	Zina Phinney	Green county, N.Y.	Mar. 4, 1814
Butter, manufacturing	Asahel Curtis	Paris, N. Y	Apr. 20, 1830
Butter, working and cutting curds	William Buck Titus D. Gail	Chatham, Conn	Dec. 5, 1825
Butter working and pressing	Titus D. Gail	Eden, N. Y	Oct. 10, 1840
Butter-working, machines for	Seth Bishop	Redding, Ct	Jan. 8, 1842
Butter-working, machines for	E. Wilson & M. Lee.	Redding, Ct	Feb. 7, 1842
Cane cutters	John P. Bryan		July 8, 1843
Canker worm—see Trees.	,	, ,	•
Cheese, curd cutter	Isaac Hunter, jr	New Braintree, Mass	Dec. 23, 1834
Cheese, curd cutter		Sacket's Harb., N.Y.	
Cheese, net.	Lewis M. Norton	Litchfield, Conn	June 4, 1827
Cheese, netting for forming pine			
apple		Norway, N. Y.	Dec. 27, 1831
Cheese, turning and curing	Henry Wehher	East Richfield N V.	Apr. 22, 1835
Cheese, vat for forming pine apple	Lewis M Norton	Troy, Pa	Apr. 17, 1810
Churn	Isaac Baker	Massachusetts	
Churn	Inel Pierce	New York	Apr 10, 1802
~	Ahner Wing	Washington N V	May 96 1906
	TYPOLICE AA INK	Polimore Md	Tune 92 1000
Churn	Dauban Busie		
Churn	Reuben Buck	Washington M W	Oct 2 1007
Churn	Reuben Buck Buel Cutter	Washington, N. Y.	Oct. 3, 1807
Churn	John Scripture	Washington, N. Y Alford, Mass	Dec. 15, 1807
Churn	John Scripture Simeon Hays	Washington, N. Y Alford, Mass Poultney, N. Y	Dec. 15, 1807 Mar. 8, 1808
Churn	John Scripture Simeon Hays Stephen Stackhouse	Washington, N. Y., Alford, Mass Poultney, N. Y Cazenovia, N. Y	Dec. 3, 1807 Dec. 15, 1807 Mar. 8, 1808 Mar. 11, 1808

^{*} Additional improvement, July 20, 1841.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Churn	Daniel Pierpont	New Haven, Ct	Apr. 22, 1808
Churn	Aaron Reed	Columbia co., N. Y.	Apr. 25, 1808
Churn	Nehemiah Howe	Windham, Ct	Apr. 25, 1808
Chura	Simeon B. Willard	Bloomfield, N. Y	May 18, 1808
Churn	Dyer Cleaveland	Sheffield, Mass	July 7, 1808
Churn	Dyer Cleaveland	Sheffield, Mass	July 11, 1868
Churn	Erastus Townsend	Canaan, N. Y	July 12, 1808
Churn	John Bolton	Philadelphia, Pa	Aug. 2, 1808
Churn	Samuel Moon, jr	Downington, Pa	Oct. 24, 1808
Churn	Luther Jones	Canton, Ct	Dec. 10, 1808
Churn	Ira Millington	Warren, N. Y	Mar. 2, 1809
Churn	Ezra G. Jones	Otsego, N. Y	April 21, 1809
Churn	Hez. Dickerman	Gt. Barrington, Mass	May 9, 1809
Churn	George Votee	Berlin, Ct	May 10, 1809
Churn	John McCord	Washington, N. Y	June 13, 1809
Churn	Luther Thompson	Sturbridge, Mass	June 24, 1809
Churn	Thomas Nicholson	Nelson co., Ky	Aug. 10, 1809
Churn		Durham, N. H	Aug. 15, 1809
Churn	. Nathaniel Harrington.	Whitestown, N. Y	Oct. 11, 1809
Churn	Benjamin Atwell and	1_	
	Israel Nichols	Otsego co., N. Y	Oct. 14, 1809
Churn	Enoch Burt	Princeton, N. J	Nov. 20, 1809
Churn	John Wetmore	Litchfield, Ct	Dec. 8, 1809
Churn	David Osborne	Berkshire co., Mass.	
Churn	Benjamin Fairbanks		Mar. 5, 1810
Churn	Aaron Smith	Tyngsborough, Mass	April 11, 1810
Churn	Ephraim Bacon		July 26, 1810
Churn	Simeon Gray	Genesee, N. Y	Aug. 17, 1810
Churn	Jos. Beach		Jan. 24, 1811
Churn	Lewis Cleveland	Holliston, Mass	Feb. 7, 1811
Chum	Harry Mumford	Ulster co., N. Y	Mar. 28, 1811
Churn	Daniel Robinson Jos. H. Shepard	Franklin, N. Y	May 3, 1811 Oct. 1, 1811
Churn	Adam Sheble		Oct. 1, 1811 Nov. 27, 1811
Churn		Philadelphia, Pa Ohio	Jan. 5, 1814
Churn	Joshua Lane	Homer, N. Y	May 15, 1815
Churn	Alvan Cornell and Hi-	monet, it. i	1110, 1010
	ram K. Cornell	Cambridge, N. Y	Jan. 15, 1816
Churn	John Ewing	Boston, Mass	April 30, 1816
Churn	Artemas Bills	Baltimore, Md	July 29, 1816
Churn	Denjamin Webb	Tolland, Ct	Aug. 22, 1816
Churn	Abel Broadway	Monson, Mass	Nov. 25, 1816
Churn	Nathan Porter	Suffield, Ct	April 7, 1818
Churn	Thomas T. Storm	New York	May 28, 1818
Churn	Jos. Lloyd	Orange co., N. Y	Mar. 2, 1819
Churn	William L. Frazer	Oxford, N. Y	Mar. 19, 1819
Churn	John Hale	Hillsborough, N. H.	Dec. 15, 1819
Churn	Adam Swart	Saratoga, N. Y	April 9, 1821
Churn	Benjamin Hayden, jr.	Trenton, N. J	June 15, 1822
Churn	E. Brown & A. Keith.	Winfield, N. Y	June 19, 1822
Churn	Samuel Clarke	Morris co., N. Y	Oct. 4, 1822
Churn	Abiram Baird	Schoharie co., N. Y.	Mar. 25, 1825
Churn	John P. Bortle	Claverack, N. Y	April 19, 1825
Churn	Asa Humphrey	Gray, Me	May 9, 1825
Churn	Samuel L. Bagley	Hillsdale, N. Y	Mar. 24, 1827
Chura	Levi Rosencrans	Urbana, N. Y	May 19, 1827
Churn	Nathan Whitney	Augusta, Me	June 7, 1827
Churn	Daniel Sheldon	Poultney, N. Y	Sept. 3, 1827
Churn	Samuel H. Baker		Jan. 10, 1828
Churn	Edward Spain	Mount Holley, N.J.	April 23, 1828
Churn	Joseph Hathaway	Canandaigua, N. Y.	Aug. 22, 1828
Churn	Zuri S. Doty		Mar. 17, 1829
			20200 201 2020
Churn	Cotton Foss	Perry, Ohio	June 11, 1829

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Churn	INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WERN MOUND.
Churn	Churn	T & I. Morrison	Groton N V	Oct. 16 1990
Churn		Tomas C Rayret	Colling N V	
Churn				
Churn	Ch			Top 90 1820
Churn			Worcester, Mass	Jan. 23, 1030
Churn	Churn		Eludariahahanah O	Man. C 1090
Churn	OL			
Brewer. Blenheim, N. Y. Mar. 22, 18.			Lebanon, N. I	Mar. 10, 1830
Churn	Churn		D11	M 00 1000
Churn	a	Brewer		
Churn				
Churn				
Churn			Syracuse, N. I	July 14, 1830
Churn Philip Cornell. Bruus, N. Y. Oct. 1, 18 Churn Nathan'l C. Tiffany & Ebenezer Robinson. Caroline, N. Y. Dec. 14, 18 Churn David Smith. Emmetsburg, Md. April 21, 18 Churn Joseph Crail. Warren, Ohio. May 5, 18 Churn Samuel Sweet, jr. Readfield, Mass. June 13, 18 Churn Johnson Mewhinney Liberty township, O. July 30, 18 Churn Johnson Mewhinney Massillon, Ohio. Aug. 31, 18 Churn James Van Ankin, 2d. Knox, N. Y. Sept. 28, 18 Churn John H. Bruner. McKean, Ohio. Feb. 9, 18 Churn Jedediah Darrow McKean, Ohio. Feb. 9, 18 Churn Jedediah Darrow Warren, Ohio. June 22, 18 Churn James Bennett Lawrenceville, Pa. June 22, 18 Churn James Bennett Brutus, N. Y. July 25, 18 Churn James Chardord Warren, Ohio. June 22, 18 Churn James Genett Bryette, Me. Aug. 2, 18	Churn			
Churn				
Churn		Philip Cornell	Brutus, N. Y	Oct. 1, 1830
Churn Samuel Bushnell, 2d. Saybrook, Ct. Dec. 20, 185 Churn David Smith. Emmetsburg, Md. April 21, 181 Churn Joseph Crail. Warren, Ohio. May 5, 183 Churn Cyrus Baker. Charleston, N. Y. June 13, 183 Churn Johnson Mewhinney. Liberty township, O. July 30, 183 Churn John Massillon, Ohio. Aug. 31, 183 Churn James Van Ankin, 2d. Knox, N. Y. Sept. 28, 183 Churn John H. Bruner. McKean, Ohio. Aug. 31, 183 Churn John H. Bruner. McKean, Ohio. Aug. 31, 183 Churn Jedediah Darrow. Warren, Ohio. June 23, 183 Churn Jesse Ladd. Holdeness, N. H. June 22, 183 Churn Jesse Ladd. Holdeness, N. H. June 23, 183 Churn James Bennett. Brutus, N. Y. Jule 27, 184 Churn James Gorder Warren, Ohio. June 23, 185 Churn James Genett. Brutus, N. Y. July 25, 185 <th< td=""><td>Churn</td><td>Nathan'l C. Tiffany &</td><td></td><td></td></th<>	Churn	Nathan'l C. Tiffany &		
Churn David Smith Emmetsburg, Md April 21, 18 Churn Joseph Crail Warren, Ohio May 5, 18 Churn Cyrus Baker Charleston, N. Y. June 13, 18 Churn Johnson Mewhinney Liberty township, Oly Churn Johnson Mewhinney Liberty township, Oly Churn Johnson Mewhinney Liberty township, Oly Churn James Van Ankin, 2d Knox, N. Y. Sept. 28, 18 Churn John H. Bruner Poultney, Vt. Oct. 6, 18 Churn John H. Bruner McKean, Ohio Feb. 9, 185 Churn John H. Bruner McKean, Ohio Feb. 9, 185 Churn John H. Bruner McKean, Ohio June 21, 185 Churn Jesee Ladd Holdeness, N. H. June 22, 185 Churn Jesea Ladd Holdeness, N. H. June 22, 185 Churn James Bennett Bruus, N. Y. July 25, 185 Churn James Bennett Bruus, N. Y. July 25, 185 Churn Joseph Rickey Centre township, O. Oct. 25, 185 Churn Eii Willemin			Caroline, N. Y	Dec. 14, 1830
Churn Joseph Crail Warren, Ohio May 5, 185 Churn Cyrus Baker Charleston, N. Y. June 13, 185 Churn Johnson Mewhinney Liberty township, O. Jug 30, 185 Churn Zuri S. Doty Massillon, Ohio Aug 31, 183 Churn James Van Ankin, 2d McKean, Ohio Aug 31, 183 Churn John H. Bruner McKean, Ohio Feb. 9, 183 Churn John H. Bruner McKean, Ohio Feb. 9, 183 Churn Jedediah Darrow Warren, Ohio June 2, 183 Churn Jesse Ladd Holdeness, N. H. June 22, 183 Churn Jesse Ladd Holdeness, N. H. June 22, 183 Churn James Bennett Bruus, N. Y. Jule 23, 183 Churn James Bennett Bruus, N. Y. Jule 25, 183 Churn Antiony C. Carrell Granville, Ohio Oct. 25, 183 Churn Joseph Rickey Centre township, O Oct. 25, 183 Churn Joseph Rickey Centre township, O Oct. 25, 183	Churn	Samuel Bushnell, 2d	Saybrook, Ct	Dec. 20, 1836
Churn Joseph Crail. Warren, Ohio. May 5, 185 Churn Cyrus Baker. Charleston, N. Y. June 13, 183 Churn Johnson Mewhinney. Liberty township, O. Jung 30, 183 Churn Zuri S. Doty. Massillon, Ohio. Aug. 31, 183 Churn James Van Ankin, 2d Knox, N. Y. Sept. 28, 183 Churn John H. Bruner. McKean, Ohio. Feb. 9, 183 Churn John H. Bruner. McKean, Ohio. June 2, 184 Churn Jedediah Darrow. Warren, Ohio. June 2, 185 Churn Jesse Ladd. Holdeness, N. H. June 22, 185 Churn Jesse Ladd. Holdeness, N. H. June 22, 185 Churn James Bennett Bruus, N. Y. July 25, 185 Churn James Bennett Bruus, N. Y. July 25, 185 Churn Antiony C. Carrell. Granville, Ohio. Oct. 25, 185 Churn Antiony C. Carrell. Granville, Ohio. Oct. 25, 185 Churn Joseph Rickey Centre township, O. Oct. 25, 185<	Churn	David Smith	Emmetsburg, Md	April 21, 1831
Churn Cyris Baker. Charleston, N. Y. June 13, 18 Churn Johnson Mewhinney. Liberty township, O. June 13, 18 Churn Zuri S. Doty. Massillon, Ohio. Aug. 31, 18 Churn James Van Ankin, 2d Knox, N. Y. Sept. 28, 18 Churn John H. Bruner. McKean, Ohio. Feb. 9, 183 Churn Jedediah Darrow. Warren, Ohio. June 2, 18 Churn William Loomis Ashford, Ct. June 22, 18 Churn James Bennett Bruvernecville, Pa. June 22, 18 Churn James Bennett Brutus, N. Y. July 25, 18 Churn James Bennett Brutus, N. Y. July 25, 18 Churn Caleb C. Knowles. Fayette, Me. Aug. 2, 18 Churn Joseph Rickey Centre township, O. Oct. 25, 18 Churn Joseph Rickey Centre township, O. Oct. 25, 18 Churn Thomas Thorne Clinton, N. Y. April 22, 18 Churn Weber Ferbish Hallowell, Me. Mar. 6, 18	Churn	Joseph Crail		May 5, 1831
Churn Samuel Sweet, jr. Readfield, Mass. June 13, 18 Churn Johnson Mewhinney. Liberty township, O. Aug. 31, 18 Churn James Van Ankin, 2d Massilion, Ohio. Aug. 31, 18 Churn James Van Ankin, 2d Poultney, Vt. Oct. 6, 18 Churn John H. Bruner. McKean, Ohio. Feb. 9, 183 Churn Jedediah Darrow. Warren, Ohio. June 2, 183 Churn Jesse Ladd. Holdeness, N. H. June 27, 183 Churn James Dennett. Brutus, N. Y. June 27, 183 Churn James Bennett. Brutus, N. Y. July 25, 183 Churn Joseph Rickey. Centre township, O. Oct. 25, 183 Churn Joseph Rickey. Centre township, O. Oct. 25, 183 Churn Webber Ferbish Hallowell, Me. Mar. 6, 183 Churn Webber Ferbish Hallowell, Me. Mar. 6, 183 Churn Warren Estabrook Salem, Ohio. Nov. 19, 183 Churn James Gustine New Petersburg, O. Mar.	Churn			June 13, 1831
Churn Johnson Mewhinney Liberty township, O. July 30, 18 Churn James Van Ankin, 2d. Massillon, Ohio. Aug. 31, 18 Churn John H. Bruner. McKean, Ohio. Feb. 9, 183 Churn John H. Bruner. McKean, Ohio. Feb. 9, 183 Churn Jedediah Darrow. Warren, Ohio. June 2, 183 Churn William Loomis Ashford, Ct. June 7, 183 Churn Jesse Ladd Holdeness, N. H. June 22, 183 Churn James Bennett Bruss, N. Y. June 23, 183 Churn James Bennett Brutus, N. Y. July 25, 183 Churn Caleb C. Knowles Fayette, Me. Aug. 2, 183 Churn Joseph Rickey Centre township, O. Oct. 25, 183 Churn Joseph Rickey Centre township, O. Oct. 25, 183 Churn Webber Ferbish Hallowell, Me. Mar. 6, 183 Churn Thomas Thorne Clinton, N. Y. April 12, 183 Churn James Gustine New Petersburg, O. Mar. 6, 183				June 13, 1831
Churn Zuri S. Doty. Massillon, Ohio. Aug. 31, 18. Churn James Van Ankin, 2d. Knox, N. Y. Sept. 28, 18. Churn John H. Bruner. McKean, Ohio. Feb. 9, 183. Churn Jedediah Darrow. McKean, Ohio. June 2, 183. Churn Jesse Ladd. Holdeness, N. H. June 21, 183. Churn Jesse Ladd. Holdeness, N. H. June 22, 183. Churn James Bennett. Holdeness, N. H. June 27, 183. Churn James Bennett. Brutus, N. Y. July 25, 183. Churn James Bennett. Brutus, N. Y. July 25, 183. Churn Joseph Rickey. Centre township, O. Oct. 25, 183. Churn Joseph Rickey. Centre township, O. Oct. 25, 183. Churn Webber Ferbish. Hallowell, Me. Ag. 2, 183. Churn Warren Estabrook. Salem township, O. Oct. 25, 183. Churn James Gustine. New Petersburg. New Jr. June 18, 183. Churn Joshua Ricker. Branger,				July 30, 1831
Churn James Van Ankin, 2d Knox, N. Y. Sept. 29, 18 Churn Amon Bailey. Poultney, Vt. Oct. 6, 18 Churn John H. Bruner. McKean, Ohio. Feb. 9, 185 Churn William Loomis. Ashford, Ct. June 2, 185 Churn Jesse Ladd. Holdeness, N. H. June 22, 185 Churn Isaac Van Gorder. Lawrenceville, Pa. June 23, 185 Churn James Bennett. Bruts, N. Y. July 25, 185 Churn Antloony C. Carrell. Granville, Ohio. Oct. 25, 185 Churn Antloony C. Carrell. Granville, Ohio. Oct. 25, 185 Churn Antloony C. Carrell. Granville, Ohio. Oct. 25, 185 Churn Besph Rickey. Centre township, O. Oct. 25, 185 Churn Webber Ferbish. Hallowell, Me. Mar. 6, 185 Churn Warren, Churn. Salem. Nov. 19, 185 Churn James Gustine. Manor township, O. Oct. 25, 185 Churn Joshua Ricker. Bangor, Me. Aug. 11, 183<				Aug. 31, 1831
Churn Amon Bailey Poultney Vt. Oct 6 16 18 Churn John H. Bruner McKean Ohio Jeb 9 183 Churn Jedediah Darrow Warren Ohio June 22 183 Churn Jesse Ladd Holdeness N. H June 23 183 Churn Isaac Van Gorder Lawrenceville Pa June 23 183 Churn James Bennett Brutus N. Y July 25 183 Churn Caleb C. Knowles Fayette Me Aug 2, 183 Churn Antiony C. Carrell Granville Oct 25 183 Churn Antiony C. Carrell Grentre township Oct 25 183 Churn Bosph Rickey Centre township Oct 25 183 Churn Webber Ferbish Hallowell Me Me 6 183 Churn Uri L. Clark Hallowell				
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Churn William Loomis Ashford, Ct. June 7, 183 Churn Jesse Ladd Holdeness, N. H. June 23, 183 Churn Isaac Van Gorder Warren, Ohio. June 23, 183 Churn James Bennett Brutus, N. Y. July 25, 183 Churn Caleb C. Knowles Fayette, Me. Aug. 2, 183 Churn Anthony C. Carrell Granville, Ohio. Oct. 25, 183 Churn Joseph Rickey Centre township, O. Oct. 25, 183 Churn Eli Willemin Salem township, O. Oct. 25, 183 Churn Webber Ferbish Hallowell, Me. Mar. 6, 183 Churn Warren Estabrook Salem township, O. Oct. 25, 183 Churn Warren Estabrook Salem, Ohio. Nov. 19, 183 Churn Uri L. Clark. Manor township, Pa. Dec. 31, 183 Churn Joshua Ricker Balenheim, N. Y. Dec. 31, 183 Churn Johna Rown Hallowell, Me. Aug. 9, 183 Churn Joshua Ricker Bangor, Me. Aug. 9, 183				
Churn Jesse Ladd. Holdeness, N. H. June 22, 185 Churn Simeon Power Lawrenceville, Pa. June 23, 185 Churn James Bennett Warren, Ohio. June 27, 185 Churn Caleb C. Knowles Fryette, Me. Aug. 2, 185 Churn Anthony C. Carrell. Granville, Ohio. Oct. 25, 183 Churn Joseph Rickey Centre township, O. Oct. 25, 183 Churn Eli Willemin Salem township, O. Oct. 25, 183 Churn Webber Ferbish Hallowell, Me. Mar. 6, 185 Churn Warren Estabrook Salem township, O. Oct. 25, 183 Churn Warren Estabrook Salem, Ohio. Nov. 19, 183 Churn Uri L. Clark Manor township, Pa. Dec. 31, 183 Churn James Gustine New Petersburg, O. May 14, 183 Churn James Gustine New Petersburg, O. May 14, 183 Churn Joshua Ricker Bangor, Me. Aug. 9, 183 Churn Joshua Ricker Bangor, Me. Aug. 9, 183				
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DARKLIONS OF DECOASSISS.	PATEETRES.	rempance.	VERN MOTES.
Churn	Thomas Nicholson	Newmarket, Va	Mar. 31, 1896
Chura	Charles Marriman	Middletown, Ct	April 21, 18
Churn	Amasa Wharff	New Gloucester, Me.	June 16. 1836
Churn	Samuel Tyler	New Gloucester, Me.	
Churn	Davis Variel	Minot, Me	July 1. Line
Churn	Step'n P. W. Douglass	Lansingburg, N. Y	Jan. 9, 1856
Churn	Joshua G. Pike	Lansingburg, N. Y Lisbon, N. Y	April 28, 1830
Churn	Rufus Porter	Rillerica Maga	
Churn	Enoch Thomas	Harrisonburg, Va	May 30, 18
Churn	Daniel Osgood, jr	Blue Hill, Me	July 9, 12
Churn	Milo B. Hough	Dover, Ohio	
Churn	John S. Thomson	Wyalusing, Pa	
Churn	Constant Webb	Wallingford, Ct	
Churn	A. & W. A. Crowell .	Salisbury, Ct Hartwick, N. Y	June 20, 1840
ChurnChurn	Thomas Pierce Lemuel Adams	Redding, Ct	April 16, 1842
Churn	Roderick Goodwin	North Bergen, N. Y.	
Churn	Noah H. Lindley	Redding, Ct	
Churn	Daniel F. Hitt	Galena, Ill	
Churns	N. H. Lindley & W.	,	
	Perry	Bridgeport, Ct	Mar. 10, 1843
Churn	George W. Cook	St. Louis, Mo	Feb. 28, 1844
Churn	Harmess Bentley	Ballston, N. Y	April 20, 1844
Churn	Jason B. Schermerhorn		June 5, 1844
Churn	Thomas Ling	Portland, Me	Aug. 21, 1644
Churn	Samuel B. Howd		Dec. 12, 1846
Churn, balanced lever	Charles King Caleb Angevine	Scipio, N. Y New York	April 4, 1846 April 19, 1832
Churn, box	T. & L. Morrison	Groton, N. Y	Oct. 16, 1829
Churn, churning cream by atmos-	2.00 22.1.201.1.001	G400011, 11. 11.11.11	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,
pheric air	Elias V. Coe	Warwick, N. Y	April 7, 1831
Churn, cradle	John Barber	Caroline, N. Y	Jan. 28, 1830
Churn, cutting floats of	Reading Ryerson	Jay, Me	July 17, 1835
Churn, dash	Samuel Jackson	Jay, Me	June 11, 1836
Churn dashers	Peter Van Antwerp	Coeymans, N. Y	Feb. 16, 1843
Churn, double dasher	Enos Mitchell	Pittston, Me	Sont 90 1995
Churn, double dash	Ezra Waterhouse William Sutton	Gardiner, Me Geneva, N. Y	
Churn, double revolving	Luther Barney & Abel	Guicia, 11. 21.	2, 1000
Causa, acase serenage, very	A. Beach	Groton, N. Y	Feb. 5, 1830
Churn, floating wheel	Ebenezer Dewey	Butternuts, N. Y	Oct. 1, 1830
Churn, forcing valve piston	Benjamin Cushwa	Clearspring, Md	Jan. 24, 1829
Churn, horizontal	John Davidson	Cheshire, N. H	April 3, 1812
Churn, horizontal vibrating	Thomas Pratt	Cheshire, N. H	Sept. 12, 1811
Churn, inclined wheel, applied	G. F. Reeve and J.		A 10 1001
with dogs.	Ketcham	Orange co., N. Y	Aug. 10, 1821
Churn labor saving	William Cook	Southport, N. Y	Dec. 7, 1829
Churn, labor saving	Samuel J. O'Brien Abner Bristol	New York	Dec. 22, 1829 April 28, 1830
Churn, lever	Philip H. Kemtall	Hillsdale, N. Y Salem, Mass	June 13, 1831
Churn, lever power	Hosea H. Grover	Auburn, N. Y.	Nov. 30, 1839
Churn, machine for working	Philo. B. Pratt	Kent, Ct	July 22, 1833
Churn, pendulum	Cyrus Hitchcock		Aug. 7, 1813
Churn, pendulum	Caleb Angevine	New York	Feb. 28, 1831
Churn, propelling and cradles	Ezra Whitman, jr	Winthrop, Me	Mar. 27, 1835
Churn, propelling by weights	Asahel Bacon	Windsor, N. Y	Oct. 10, 1835
Churn, revolving	Nicholas King	Washington, D. C.	Mar. 10, 1808
Churn rocking	Hardin Branch	New York	April 18, 1832
Churn, rocking	W.Keeler & J.Waring Daniel Parmelee	Dutchess co., N. Y.	June 23, 1803 Sept. 8, 1808
Churn, rocking	John G. Philip	Kinderhook, N. Y.	Feb. 15, 1827
Churn, spiral spring		Hallowell, Me	Jan. 7, 1835
Churn, tin	Thomas E. Warner	Harford co., Md	Feb. 11, 1834
Churn, top	Levi Stephens	Connecticut	May 8, 1804

		_	
-INVENTEDAR OR DISCOVERED.	Pat roveus .	RESIDENCE.	WORLD GROUND.
			!
Churn, and washing machine	John Devotie	Vernon, N.Y	Dec. 5, 1860
Churn, and washing machine	Daniel Read	Slaterville, N. Y	June 16. 1865
Churn, and washing machine	Hez. Kingsbury	Hebron, Ct	July 26, 1850
Churn, and washing machine Churn, and washing machine	Ira Park	Delhi, N. Y Finksburg P.O., Md.	Jan. 10, 1000 Tune 15 1925
Churn, and washing machine	Thomas Ling	Winthrop, Me	
Churn, and washing machine	See Class 17.		
Churn, and working it.	Talmage Ross	Pickaway, Ohio	Jan. 26, 1831
Gider mills.—See Apples grinding,	Class 13. John Smith	Fredericksburg, Va	April 98 1815
Clover seed, gathering	James K. Mitchell	Danville, Pa	July 20, 1843
Clover mill, for hulling, &c.*		Wooster, Ohio	June 14, 1845
Clover mill, for hulling, &c		Turbet, Pa	Aug. 16. 1845
Cocoa grass, destroying		New Orleans, La	Oct. 6, 1843
Corn and cane cutters	Jacob Peck	Oakland, Pa Pittsylvania Va	Dec 19 1899
Corn fodder, cutting and crushing.	Rudolph Miller	York, Pa	
Corn fodder, cutting and crushing.		Winthrop, Maine	
Corn, hulling	Warren Carpenter	Newcastle, Pa	Jan. 23, 1836
Corn, husking	Howlett Bushnell	Norwich, Conn	
Corn, husking		Putney, Vt	
Corn, planting.—See Seeding.	Enjan Converse	Ollicarina, Olicotti	Jun. 1, 1040
Corn rows, &c., laying off	Peter Moseley	Benton, Miss	Dec. 12, 1842
Corn sheller		Massachusetts	Oct. 25, 1803
Corn sheller		Fredericktown, Md	
Corn sheller	J. Funer	Rockland, Va Pittsburgh, Pa	
Corn sheller		Ashford, Conn	
Corn sheller, (imprint on Jones's)	Rufus Guthrie	Brimfield, Mass	Jan. 18, 1820
Corn sheller		New York	Jan. 26, 1821
Corn sheller		Catskill, N. Y	
Corn sheller		Petersham, Mass New York	
Corn shelle	Lemuel Peck	Brookfield, Conn	
Com sheller	John Moon	Falls township, Pa	April 20, 1824
Corn sheller	Chauncey Bulkley	Manchester, Vt	May 25, 1824
Corn sheller	Lawis Whitney	Palmyra, N. Y New York	Nov. 13, 1824
Corn sheller	Lewis Whitney Benjamin Crooker	New York	Dec. 2, 1824
Corn sheller	Alverson Little	Columbia, Conn	
Corn sheller	Pierson Reading	Trenton, N. J	Dec. 27, 1824
Corn sheller	Francis Price	New York	
Corn sheller	William C. Hawley John Moon	New York	
Corn sheller		Hallowell, Maine	Sept. 9, 1825
Corn sheller	Amon Bailey	Poultney, Vt	Nov. 1, 1825
Corn sheller		Poultney, Vt Hudson, N. Y	Dec. 8, 1895
Corn sheller, (impr't on Pilsbury's) Corn sheller		Guilford, N. C	June 15, 1896
Corn sheller	Elijah Russell Thomas Newman	Greensburg, N. C Guilford, N. C	Feb. 7, 1827
Corn sheller:	John Brown	Providence, R. I	Mar. 18. 1828
Corn sheller †	William Hovt	Vernon, Ind	April 29, 1828
Corn sheller	Phil. Grosjean	Louisville, Ky	July 29, 1828
Corn sheller	Thomas J. Dean	Virgin, N. Y	Dec. 8, 1828
Corn sheller	Samuel E. Donnell	Greenshoro'co N C	April 5 1823
Corn sheller	John Ross	Boundbrook, N. J	April 12, 1833
Corn sheller	Michael Carpenter	Lancaster, Pa	Aug. 8, 1833
Corn sheller	Frederick Eliott	Greensbero'coN C.	Nov. 19, 1833
Com sheller	Calvin Page	Sanbornton, N. H	Mar. 13, 1834
Corn sheller	Warren Johnson	Boscawen, N. H.	Dec. 17 1884
* Antodated May 4th		Dolomon Suna 19 169	1 2001 21, 2002

^{*}Antedated May 4th, 1845.

[†] Reissued June 13, 1831.

ENGENICOM OR DISPOSITION.	PATERTEEN.	A MAND-ANT/COP	Wester Statemp.
Gorn sheller	J. H. Taylor and A.		
Com sheller	JCowles Eph. Rand and Adna	Westfield, N. Y	Feb. 11, 1835
Corn sheller	L. Norcross Dunbar and Powers	Hallowell, Maine Portland, Maine	Feb. 13, 1835 June 26, 1835
Corn sheller	John P. Small Joseph Turner	Gilmanton, N. H Portland, Maine	July 21, 1835 Aug. 15, 1835
Corn sheller	Elijah Morse	Knoxville, Tenn	Sept. 9, 1835
Corn sheller	James S. Harris Warren Carpenter	Poultney, Vt Newcastle, Pa	Sept. 18, 1835 Jan. 23, 1836
Corn sheller	Albert W. Gray Robert Gray	Middletown, Vt Northfield, N. Y	Mar. 31, 1836 Jan. 16, 1835
Corn sheller	Levi Stephens	New York	May 8, 1804
Corn sheller	George E. Waring Robert Humphreys	Poundridge, N. Y Harpersfield, N. Y	Mar. 16, 182? Dec. 24, 1824
Corn sheller	Zina Phinney	Cairo, N. Y Vernon, Ind	Feb. 16, 1815 Dec. 17, 1830
Corn shelling	Jabez Parker and Hi-	·	
Corn shelling	Joel Barnes and Nel-	Richmond, Va	April 9, 1831
Corn shelling	son T. Loomis David Hitchcock	Cornwall, Conn New York	April 13, 1831 June 13, 1831
Corn shelling	Jesse Reed	Marshfield, Mass PrinceGeorge co., Va.	Sept. 1, 1831 May 10, 1832
Corn shelling	Christian Thomas	Lancaster, Pa	Sept. 3, 1832
Corn shelling	Michael Carpenter Daniel Hall	Lancaster, Pa Strasburg t'nship, Pa.	Oct. 25, 1832 Nov. 12, 1832
Corn shelling	Timothy Wellman, jr. Ezekiel W. Coffin	Brooklyn, Vt Gilead, Maine	Oct. 9, 1834 Dec. 23, 1834
Corn shelling	Isaac A. Hedges Henry G. Neal	Elmyra, N. Y Poultney, Vt	Feb. 3, 1836 Feb. 10, 1836
Corn shelling	Ira Smith	Downington, Pa	Feb. 13, 1836
Corn shelling	J. C. Baldwin Thomas Wright	Staunton, Va New Village, N. J	Oct. 11, 1836 June 12, 1838
Corn shelling	James W. Webb Rufus Porter	Mount Morris, N.Y. Billerica, Mass	July 16, 1838 Sept. 12, 1838
Corn shelling	Lester E. Dennison Ezra Bond	Saybrook, Conn Mendon, N. Y	Oct. 8, 1838 June 13, 1831
Corn shelling.—See Thrashing.		l	
Corn sheller	Olonzo R. Dinsmore. W. McIlroy, jr., Bart-	West Chester, N. H.	Feb. 28, 1839
Corn sheller	ley and Wm. Boon. William R. Parker	Greenwich, N. J Milton, Del	Mar. 30, 1839 July 9, 1839
Corn sheller	Lester E. Dennison Samuel H. Kisinger	Saybrook, Conn	Aug. 12, 1839
	and E. G. W. Stake	Williamsport, Md	Oct. 31, 1839
Corn sheller	Porter A. Gladwin John A. Whitford	Chester, Ct	April 24, 1840 Jan. 23, 1841
Corn sheller	Charles Willis Nichol. Goldsborough	Chelsea, Mass Eaton, Md	Jan. 27, 1841 Feb. 12, 1841
Corn sheller	Pierson Reading Joseph H. Derby	Batavia, Ohio Leominster, Mass	Sept. 25, 1841 Nov. 10, 1841
Corn sheller	John Mercer	Harrisville, Ohio	June 24, 1839
Corn shellers	Cyrus C. Baldwin Nathan Charles and		
Corn ahellers	Edwin A. Scolfield. Carlos G. Pressey and	•	Jan. 20, 1843
Corn shellers	James B. Dudley Francis N. Smith	Andover, N. H Kinderhook, N. Y	Mar. 30, 1843 June 1, 1843
Corn shellers	William Manning William McAll	South Trenton, N. J.	Aug. 4, 1843
Corn aheller	Joseph D. Briggs	Talladega, Ia	June 14, 1845
Corn sheller	Thomas D. Burrall Waldren Beach	Geneva, N. Y Baltimore, Md	

SHUMMING OR DESCOURAGES.	PATEMPERA.	rembujet.	WHEN IMORD.
Corn sheller	David S. Hollister	Baltimore, Md	June 13, 1846
Corn sheller	J. W. Gordon	Jamestown, N. C	Oct. 7, 1846
Corn shelling and cleaning	Lorenzo B. Glover	Easton, Conn	July 31, 1846
Corn shelling and cleaning	James Murray	Baltimore, Md	Oct. 7, 1846
Corn stalks, cutting	A. Glendenning	Butler county, Pa	Sept. 25, 1893
Cotton cleaner	Fones McCarty	Demopolis, Ala	Feb. 12, 1845
Cotton, cleaning.—See Class 3.	,	, ,	,
Cotton, drying, &c		Cold Spring, Miss	Feb. 12, 1836
Cotton plant, management of	Samuel W. Pomeroy.	Brighton, Mass	May 6, 1824
Cotton scraper	Horatio Starke	Wilkinson co., Miss.	Feb. 3, 1824
Cotton thinner	Gordon Gatling	Murfreesboro', N. C.	June 19, 1835
Cream, extracting from milk	Samuel Davis	New York	Oct. 1, 1830
Crushers, corn and cob	James L. McKnight		
Cultivating and tilling the ground.	Joseph T. Prescott	Chesterfield, Maine.	
Cultivating cotton, scraper and har-		•	• •
row	William P. Sample	Bedford co., Tenn	Sept. 3, 1831
Cultivator	lames Hall		Nov. 19, 1814
Cultivator	S. Hubbard & J. Graves	Wilmington, Vt	June 21, 1823
Cultivator	Richard Herbert	Williamson co. Tenn.	Aug. 19, 1828
Cultivator	David Davis	Fredericksburg, Va.	
Cultivator			
Cultivator	J. S. Eastman	Baltimore, Md	June 30, 1836
Cultivator.—See Plough. Cultivator.—See Seeding.			_
Cultivator	Robert Nelson	West Point, Ia	Jan. 15, 1844
Cultivator	William Dyzert	Gettysburg, Pa	Aug. 16, 1844
Cultivator	Almond Harrison	Blissfield, Mich	Sept. 2, 1845
Cultivator	Andrew Ralston	West Middleton, Pa.	Sept. 2, 1845
Cultivator	Allen Eldred	Oppenheim, N. Y	
Cultivator, American	William Dysert	Gettysburg, Pa	Aug. 28, 1846
Cultivator, for beans and corn	Frederick Miner	New London, Conn.	Aug. 21, 1819
Cultivator, corn plough	Eliakim Spooner	Vermont	
Cultivator, corn	John Hernly John B. Smith	East Hempfield, Pa.	
Cultivator, com, &c	Noah Barnes	Norfolk, Va Easthampton, N. Y.	
Cultivator, corn	Sam. Brady	Salona, N. Y	April 6, 1842
Cultivator, corn	Issachar Bates, Asa		
Cultivator, cotton	Wood, and D. Wells. William A. Rogers	Adams, N. Y	
Cultivator, garden*	John B. Smith	Sommerville, Ala	
Cultivator, or harrow	Waldren Beach	Norfolk, Va Philadelphia, Pa	Oct 95 1839
Cultivator, or hoe-harrow	N. J. Shuff	Bensalem, Pa	Nov. 26, 1836
Cultivator, revolving	George Whitlock	Crown Point, N. Y.	July 10, 1841
Cultivator and seed planter	R. H. Springsteed	Wooster, Ohio	Feb. 12, 1845
Cultivator, seeding	John Richard	Guilford t'nahip, Pa.	Dec. 16, 1833
Cultivator, teeth	James Birdsell	Hamorton, Pa	Nov. 9, 1844
Cultivator, tooth	David B. Rogers	Stafford, N. Y	Nov. 1, 1845
Cultivator, tooth for	William Beach	Philadelphia, Pa	Nov. 8, 1825
Cultivator, tooth and harrows	Waldren Beach	Philadelphia, Pa	April 13, 1826
Cultivator, tooth for	Isaac Cobb	Westminster, Vt	Dec. 7, 1829
Cultivator, for thinning cott'n plants	John Weaver	Washington, D. C	July 5, 1837
Cultivator for vines	John Mason	Union, N.J	May 28, 1842
Cultivator, and weeder	Simeon W. Marshall and J. W. Coburn		Oct. 3, 1838
Cultivator, weeding corn	Charles Hill	Essex county, Va	July 7, 1814
Cutting cane, brush, &c	Edwin Owen	Byron, Ia	May 30, 1846
Cutting, circular scythe	John & Adam Rhodes	Union t'nship, N. Y.	
Cutting, cradle, for grain		Renselaerville, N. Y.	Mar. 24, 1823
Cutting, cradle, for grain	Edward Badlum, jr	Chester, Vt	Sept. 18, 1835
Cutting, cradle, for hemp	Wilson L. Larimore.	Paris, Ky	April 25, 1837
Cutting, farmers' scythe	Theophilus Easton	Albany, N. Y	Dec. 2, 1814
Cutting, fodder	Luke S. Rand	Townshend, Vt	Nov. 18, 1846

^{*} Antedated October 10, 1838.

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MARKIONS OF DISCOARING	Patemters.	remderce.	WHAN MOVED.
Cutting, fodder	Jessop, Wanbaugh, Il-	V D.	No. 00 1846
Cutting grain	genfrits, & Baker Richard French, and J.	York, Pa	Nov. 20, 1846
Cutting grain	T. Hawkins Samuel Adams	New Jersey	May 17, 1803 Dec. 28, 1805
Cutting grain	John Comfort James Ten Eyck	Bucks county, Pa Bridgewater, N. J	Feb. 26, 1811 Nov. 2, 1825
Cutting grain	Samuel Lane	Hallowell, Maine	Aug. 8, 1828 May 3, 1831
Cutting grain	Obed Huzzey	Cincinnati, Ohio	Dec. 31, 1833
Cutting grain*	Alexander H. Wilson William F. Ketchum.	Buffalo, N. Y	Dec. 30, 1835 March 7, 1846
Cutting grain, all kinds Cutting grain, grass seed collector	Cyrus H. McCormick D. Ashmore & J. Peck		June 21, 1834 Sept. 18, 1835
Cutting grain, &c., (harvesting ma- chine)	H. Moore & J. Hascall	Kalamazoo, Mich	June 28, 1836
Cutting grain, horse power	Enoch Ambler	Root, N. Y	Dec. 23, 1834
Cutting grain, and rake	Abraham Rundell Peter Gaillard	Verona, N. Y Lancaster, Pa	April 22, 1835 Dec. 4, 1812
Cutting grass	Peter Baker Jer. Bailey	Long Island, N. Y Chester county, Pa.	Feb. 19, 1814 Feb. 13, 1822
Cutting grass	E.Cope & J.Hoopes, jr. Erastus Ingersoll	Chester county, Pa. Farmington, Mich.	May 18, 1825 May 7, 1830
Cutting grass	Richard Heath	West Newbury, Mass	April 26, 1833
Cutting grass, &c	Thomas A. Anderson Wm. and T. Schnebly	McMinn co., Tenn. Hagerstown, Md	June 29, 1833 Aug. 22, 1833
Cutting grass	Sturdivant and Holmes John P. Chandler	Portland, Maine Milton, Maine	June 19, 1835 Aug. 17, 1835
Cutting grass	Henry Allen John Drummond	Fayetteville, Tenn Waterford, N. Y	June 2, 1836 June 30, 1836
Cutting grass	William C. Greenleaf. Isaac Lard	Andover, Maine Ashley, Mo	July 1, 1836 Nov. 20, 1846
Cutting grass	Andrew J. Cook	Delphi, Ind	Nov. 20, 1846 April 14, 1838
Cutting grass and grain	David Lewis, jr Ira Wheeler	Bern, N. Y Salem, N. H	May 30, 1838
Cutting grass and grain Cutting and grinding fodder	Alexander M. Wilson Jacob Royer	New York, N. Y Unientown, Md	Sept. 3, 1846 Mar. 12, 1845
Cutting and raking	Clinton Foster John A. Wadsworth.	Laporte, Ind Portsmouth, R. I	April 18, 1846 July
Cutting, and thrashing	E. Briggs and G. G.	Fort Covington	Feb. 5, 1836
Cutting, scythe	Ezra Barnett	Warner, N. H	June 16, 1836
Cutting, scythe	S. Lamson S. Lamson	Cummington, Mass. Sterling, Mass	Oct. 29, 1836 Nov. 25, 1834
Cutting, scythe hanging	Joseph Clapp and Eras- tus S. Clapp	Montague, Mass	July 16, 1838
Cutting, scythe snath Cutting, scythe snath	S. Lamson John Knight	Sterling, Mass Woodbury, N. J	Dec. 29, 1828 April 7, 1831
Cutting, scythe snath	Dexter Pierce Samuel Puffer	Montague, Mass Sunderland, Mass	Mar. 11, 1837 April 7, 1838
Cutting, scythe snath moulds		·	-
Cutting, wheat	William P. Claiborne. John S. Pleasants	Halifax county, Va.	July 28, 1827
Cutting, wheat	Bernard Jackson David Whitmer	Paradise, Pa	Dec. 1, 1020
Drills, improvements in	Henry W. Smith David A. Fulk	Paradise, Pa	Nov. 4, 1846
Farming machine and corn drep	Lazarus B. McLain		Oct. 6, 1843
Fences, construction of	Joseph M. Stevens William Brittain and		
Flax pullers	John Silvers James H. Bennett Granville Martin	East Bennington, Vt.	Jan. 23, 1845
avia, war amen	Granvine Marun	wateroury, com	1 5 4110 10, 2000

^{*} Renewed June 10, 1837.

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inventions or describents.	Patritees.	Residence.	WHEN ISSUED.
Fork, four tined	Martin Stevens	New Haven, Conn.	April 16, 1824
Fork, four tined	Calvin Perkins	Waterbury, Conn Chatham, N. Y	Jan. 27, 1829
Fork, hay and dung	Christian Lawrence	Chatham, N. Y	July 26, 1823
Fork, pitch	Jered Byington	Hinesberough, Vt.	Jan. 12, 1813
Fork, steel spring	Charles Goodyear	Philadelphia	Sept. 7, 1831
Fruits, &c., drying	Stephen Strong Alex'der McWilliams	Wilkes township Washington, D. C	Sept. 2, 1811 Mar. 13, 1844
Fruit, instrument for gathering	William Sedgwick and John Brooks	Poughkeepsie, N. Y.	·
Garden, geographical	George W. Cherry	Derby, Conn	May 27, 1825
Garlic machine	Samuel Fahrney	Boonsborough, Md.	Dec. 5, 1843
Garlic separators	William C. Grimes	York, Pa	Jnly 26, 1843
Grain cleaners	F. P. Root.	Sweden, N. Y	Nov. 15, 1843
Grain cradles	Chester Goss	Madrid, N. Y	Feb. 16, 1843
Grain cutters	Jesse Reeder	Alton, Illinois	Jan. 20, 1843
Grain, machine for cleaning	Frederick A. Stuart	Catharine, N. Y	
Grain, machine for cleaning Grain, measuring	William H. Stephens. Peter H. Schenck	Salem, Ill New York	July 7, 1846
Graineries, wheat, &c	John Harmony	Chambersburg, Pa	Aug. 20, 1835
Grain separators	Dennis Claude, jr	Annapolis, Md	Feb. 24, 1843
Grubs and bushes, extracting from	, j		
land	Young William Short	Oglethorpe co., Ga	Jan. 28, 1840
Harrows, cleave	Lemuel Tam	Sussex county, Del.	July 11, 1826
Harrow, corn and grain cultivator			July 9, 1832
Harrow, corn and grain cultivator		Aurora, N. Y	
Harrow, hoe	Aquila Newbern	Bristol, Pa	
Harrow, hoe and plough	Jonathan Cheatham	Providence Inn, Va. Burlington, Vt	
Harrow, or polyshare	Frederick Brewster John C. Concklin	Peekskill, N. Y	
Harrow, revolving	Samuel Rugg	Lancaster, Mass	
Harrow, revolving, cylindrical	James D. Woodside	Washington, D. C.	
Harrow, self-sharpening	H. Hopkins & J. Pratt		Nov. 9, 1824
Harrow, teeth	Wm. McConaughey	New Garden, Pa	Dec. 8, 1823
Harrow, teeth	Wm. McConaughey	New Garden, Pa	
Harrow, teeth	Perry Prettyman	Georgetown, Del	
Harrow, teeth fluke	Lemuel Tam	Milton, Del	
Harrows, revolving	Moses G. Cass Dennis Rice	Rowe, Mass	
Harvesting machine			
Hay and grain, covering	Francis Wright	Hallowell, Maine	
Hay, preserving, &c			
Hay, spreading and turning	Joeb Center	Hudson, N. Y	June 27, 1834
Hoe	Ephraim Kimball		April 3, 1819
Hoe	Pardon H. Merrill	Hillsdale, N. H	April 6, 1820
Hoe	Joseph Watson	Canaan, Conn	
Hoe	Paul Whiten		Feb. 22, 1825
	A. Sterry		Jan. 5, 1833
Hoe	George Harper	Montgomery co., Pa	
Hoe	Adna Allen	Ramapoo, N. Y	Jan. 23, 1836
Hoe	Benjamin Hinkley	Fayette, Maine	June 23, 1832
Hoe, cast iron	Benjamin F Boyden.	Boston, Mass	Mar. 31, 18 36
Hoe, cast steel	. Chauncey Bulkley	Colchester, Conn	Jan. 10, 1827
Hoe, fastening handles to	Reener Dare	Greenwich, N. J	Feb. 14, 1832
Hoe, fastening handles to		Gorham, Maine Plymouth, Mich	Tune 11 1526
Hoe, garden	. Isaac Averill		June 11, 1836 May 8 1840
Hoes, to handles, attaching	Oliver Clark and Wm		1 • •
Hoe, horse iron, for ploughing and	D. Hillis	LILUUSUII, UIIU	Sept. 3, 1043
weeding grain	. William Carmichael.	Land Lake, N. Y	July 28, 1827
Hoe, pronged	Joseph Wilson	. Marlborough, N. H	
Hoe, weeding and others	James A. Black	. Columbia, S. C	Oct. 13, 1828
Hoe, weeding and others	. Gideon Freeborn		July 7, 1829



MAENTIONS OF DISCOVERIES.	Patrnters,	RROWNER,	WHEN SWEED.
Hulling barley	Harry Handschy	Bridgeville, Ohio	Sept. 5, 1834
Hulling buckwheat, barley, &c	Thomas Register	West township, Ohio	April 5, 1888
Mulling clover machines	A. B. Crawford	Wooster, Ohio	
Rulling clover seed	Jacob Warrell	Pennsylvania	Feb. 27, 1804
Hulling clover seed	Michael Withers	Lancaster, Pa	April 30, 1864
Hulling clover seed	Michael Zorger	York, Pa	May 10, 1805
Hulling clover seed	William Sampson and	NY . TT 774	
TV Nime alaman and	Cyrus Curtis	New Haven, Vt	
Hulling clover seed	Samuel Condon	New Hartford, Conn	March 9, 1809
Hulling clover seed	Nehemiah Price Henry Spickard	Frederick co., Md	Aum 16 1014
Hulling clover seed	Samuel Arnold	Fincastle, Va Botetourt, Va	Ian 95 1815
Hulling clover seed	John Bolton	Warren, N.Y	Jan. 9, 1823
·Hulling clover seed	William Loomis	Ashford, Conn	April 27, 1822
Hulling clover seed	Thomas D. Burrall	Geneva, N. Y	June 5, 1823
Hulling clover seed	Isaac H. Haskins	Columbia, N. Y	May 6, 1834
Hulling clover seed	Benjamin Sutton	Romulus, N. Y	Feb. 10, 1825
Hulling clover seed	Jacob Gorgas	Fredericksburg, Pa.	Jan. 15, 1830
Hulling clover seed, &c	William Manning	Westfield t'ns'ip, Pa.	Nov. 24, 1830
Hulling clover seed	Pierson Reading	Trenton, N. J	Oct. 25, 1831
Hulling clover seed	Christopher Seabold, jr		
Hulling clover seed	George Monohon	Augusta t'nship,Ohio	
Hulling clover seed	Pierson Reading	Trenton, N. J Pittsburgh, Pa	July 31, 1832 Oct. 13, 1832
Hulling clover seed	Geo. and Edw. Faber Thomas Gollogher	Fairfield county, Ohio	
Hulling clover seed	Jacob Gans	Fayette county, Pa.	
Hulling clover seed	Hildreth Robbins	Wilton, Maine	
Hulling clover seed	Leonard Keep	Tyrone to'ship, Pa	
Hulling clover seed	W.Kuhn, Geo. Hasin-	.,	
	ger, and W. Stiles	Union county, Pa	Dec. 24, 1833
Hulling clover seed	Christian Landes	Mount Sidney, Va	Dec. 24, 1833
Hulling clover seed	Israel Correll	New Philadelphia, O.	Dec. 31, 1833
Hulling clover seed		Augusta county, Va.	Mar. 18, 1834
Hulling clover seed	Elias Horn	Cadiz, Ohio	Jan. 30, 1834 Mar. 26, 1834
Hulling clover seed	William Rowe	Phillips, Maine	
Hulling clover seed	Samuel M. Bailey	Attleborough, Pa	
Hulling clover seed		York, Pa	
Hulling clover seed		York, Pa	Nov. 8, 1834
Hulling clover seed	Stacy West	Harford county, Md.	Jan. 16, 1835
Hulling clover seed	J. B. and W.F. Poague		
Hulling clover seed			June 16, 1836
Hulling elover seed	Hildreth Robbins	Kennebec, Maine	
Hulling clover seed			
Hulling clover seed		Cheek's⊠ Roads,Te. Hartley, Pa	
Hulling clover seed			
Hulling clover seed See Thrush			10, 10,
Hulling clover seed, and chopping		1	
_grain	George Wales	Centre township, Pa.	
Hulling clover seed, and cleaning.		Chambersburg, Pa.	Aug. 10, 1831
Hulling clover seed, and cleaning.		Buckingham t'sp.Pa	Aug. 12, 1831
Hulling clover seed, and cleaning. Hulling clover seed, and cleaning.	Alexander Matthews	Island Creek, Ohio Lovingston, Va	Dec. 13, 1831
Hulling clover seed, and cleaning.	Elisha Rider Benjamin Wood	Doylestown, Pa	Ang 11 1824
Hulling clover seed, and cleaning.	Joseph Ross	Boundbrook, N. J.	
Hulling clover seed, and cleaning			
Hulling clover seed, and other grass			
seed	Abraham Keagy	Morrison's Cove, Pa	June 24, 1839
Hulling clover seed, and corn	Robert Rittenhouse	Arawell t'nehip, Pa.	Mar. 19, 1833
Hulling clover seed, mill	John Bolton		Jan. 9, 1823
Hulling clover seed, and rice			1004
Hulliam slawer good and miss	Matthew S. Kahle.	Lexington, Va	Jan. 17, 1834
Hulling clover seed, and rice	William H. Mansfield	Millintown, Pa	June 6, 1846

INTENTIONS OR DESCOVERIES.	PATRITURE.	RESIDENCE.	WREN HOUED.
Hulling clover seed, and rice			June 6, 1885
Hulling clover seed, and thrashin		New York	April 29, 1884
Hulling coffee		Belfast, Maine	Sept. 10, 166
Hulling coffee		New York	
Hulling coffee berry		Boston, Mass	Jan. 13, 1875 Jan. 13, 1685
Hulling coffee berry		Boston, Mass Philadelphia, Pa	June 26, 1836
Hulling cotton, clover, & other see Hulling cotton seed		Pennsylvania	Dec. 6, 1963
Hulling cotton seed	John Lineback	Salem, N. C	Mar. 31, 1814
Hulling cotton seed*	Francis Follet	Petersburg, Va	Jan. 21, 1829
Hulling cotton seed		Petersburg, Va	Dec. 28, 1839
Hulling cotton seed		Madison, Ga	May 29, 1833
Hulling cotton seed		Madison, Ga	Dec. 20, 1833
Hulling cotton seed		Waterford, Ct	Feb. 12, 1834
Hulling cotton seed	. Henry Hubbard	Claremont, N. H	April 19, 1834
Hulling cotton seed		Washing'n co., Miss	
Hulling cotton seed		Trenton, N. J	April 13, 1836
Hulling cotton seed, and breaking		01	D 18 1084
TT	Jenks	Columbia, S. C	Dec. 17, 1834
Hulling cotton seed and rice		N. Hanover co., N.C.	Mar. 30, 1835
Hulling cetton seed.—See Mills,			
Hulling gram	Benj. Maltby & Malt- by Fowler	New Haven, Ct	Feb. 28, 1818
Hulling grain	Nathaniel Barrett	Paris, N. Y.	Aug. 21, 1823
Hulling grain	William J. Hart	Talmadge, Ohio	May 21, 1824
Hulling grain, and cleaning		Otsego, N. Y	Aug. 25, 1832
Hulling grain, and cleaning	. Jeduthan Cross	Centre Lisle, N. Y	Oct. 8, 1838
Hulling grain and rice	. Benj. Maltby & Malt-	1	
	by Fowler	New Haven, Ct	Feb. 28, 1818
Hulling grass seed		Paris, Me	July 12, 1822 Jan. 15, 1840
Hulling, husking, & shelling corn		Miamisburg, Ohio	
Hulling machines	. James McGregor Sebastian Houpt	Saratoga, N. Y Philadelphia, Pa	May 12, 1840 Nov. 16, 1812
Hulling machine, separating seeds		I miaucipma, I a	1101. 10, 1022
&c	. G. McA. Brown	Northumber'd co. Va	Mar. 19, 1812
Hulling oats, barley, &c	. J. Andrews & E. Piper.		Dec. 10, 1840
Hulling rice	Christopher Hoxie		Jan. 7, 1803
Hulling rice	. Sherman Dewy	Hartford, Ct	Mar. 2, 1811
Hulling rice	. John Ravenel	Charleston, S. C	Jan. 29, 1830
Hulling rice	. Joshua M. Buskey	New York	Oct. 25, 1832
Hulling rice			
Hulling rice		New Gloucester, Me	June 10, 1930
Hulling rice		Doughkaansia N V	Mar 20 1937
Hulling rice.—See Thrashing.	Tracy	Poughkeepsie, N.Y.	May 50, 1001
Hulling rice and barley	John L. Norton	Charleston, S. C	May 7, 1830
Hulling rice and barley	T. F. Strong & M. T.	,	
, , , , , , , , , , , , , , , , , , , ,	Moody	Northampton, Mass.	Nov. 17, 1832
Hulling rice and barley	T. F. Strong & M. T.		,
•	Moody	Northampton, Mass.	
Hulling rice and barley	Eleazer Carver	Bridgewater, Mass.	Sept. 22, 1838
Hulling rice, beating out	John Beck & Joseph		35 -0 1010
FF 11'	Coppinger	Beck's Ferry, S. C	Mar. 19, 1810
Hulling rice, cleaning	James Dellet		Dec. 23, 1796
Hulling rice, cleaning			
Hulling rice, cleaning			
Hulling rice, cleaning Hulling rice, cleaning			
Hulling rice, cleaning			
Hulling rice, cleaning	Elihu Spencer	New Haven, Ct	Dec. 5, 1821
Hulling rice, cleaning	Alexander Shinie	Charleston, S. C	Dec. 21, 1825
Hulling rice, cleaning	John L. Norton	New York	Mar. 10, 1826
Hulling rice, cleaning	. John Campbell	Winnsborough, S.C.	May 31, 1827
Hulling rice and coffee	. Elijah Wilder	Jersey City, N. J	Nov. 6, 1827

^{*} Reissued December 15, 1829.

[†] Additional improvement, March 29, 1841.

Balling rice, mill.	enventions of discoarding.	PATHYZES.	randina.	Marin Merked.
Belling rice, machine				
Sheling rice, machine As Nourse Beaufort, S. C. July 19, 188 Sheling rice, malthine As Nourse Beaufort, S. C. July 19, 188 Sheling rice, mill, steam John L. Norton Charleston, S. C. Dec. 16, 188 Railing rice, polishing James J. Cordes London, England Sept. 19, 188 Halling rice, polishing James J. Cordes London, England Sept. 19, 188 Halling rice, polishing James J. Cordes London, England Sept. 19, 188 Halling rice, polishing James J. Cordes London, England Sept. 19, 188 Halling rice, polishing Midletown, Ct. May 10, 128 Middletown, Ct. May 11, 128 Middletown, Ct. May 11, 128 Middletown, Ct. May 11, 128 Middletown, Ct. May 12, 124 Middletown, Ct. Middle			Jasper co., Ga	July 7, 1886
Balling rice, mill.			New Haven, Ct	July 28, 18
Asa Nourse. Charleston, S. C. April 3, 188				May 17, 1888
Halling rice, mortar, for dressing, James J. Cordes London, England Sept. 19, 183 Halling rice, polishing T. F. Strong & M. T. Moody Middletown, Ct May 10, 183 Hulling rice, polishing J. Moody Morthampton, Mass May 10, 183 Hulling rice, polishing J. Moody Morthampton, Mass May 10, 183 Hulling rice, polishing Jonathan Lucas Charleston, S. C Nov. 6, 181 Hulling rice, pounding Alexander D. Moore Meannah, Ga My. 6, 181 Hulling rice, pounding Alexander D. Moore St. Luke's, S. C July 5, 181 Hulling rice, pounding Alexander D. Moore St. Luke's, S. C July 5, 181 Hulling rice, socuring Robert Grant South Carolina Oct. 17, 187 Hulling rice, scouring Robert Grant South Carolina Oct. 17, 187 Hulling rice, and working trip hammer Morthampton, Mass South Carolina Oct. 17, 187 Hulling rice, scouring May 10, 188 Hulling rice, and working trip hammer Middletown, Ct Oct. 18, 189 Hulling rice, and correct Middletown, Ct Oct. 18, 189 Hulling rice, and working trip hammer Middletown, Ct Oct. 18, 189 Hulling rice, and working trip hammer Middletown, Ct Oct. 18, 189 Hulling rice, and other grains Middletown, Ct Oct. 18, 189 Hulling rice, and other grains Jacob Groat Troy, N. Y Aug. 28, 189 Hulling and pearling rice Clark Jacobs Brookfield, Ct May 12, 184 Hulling and pearling rice Clark Jacobs Brookfield, Ct May 12, 184 Hulling and pearling rice Clark Jacobs Brookfield, Ct May 12, 184 Hulling and pearling rice Clark Jacobs Brookfield, Ct May 12, 184 Hulling and pearling rice Clark Jacobs Brookfield, Ct May 12, 184 Hulling and pearling rice Clark Jacobs Brookfield, Ct May 12, 184 Hulling and pearling rice Clark Jacobs Brookfield, Ct May 12, 184 Hulling and pearling rice Clark Jacobs Brookfield, Ct			Beaufort, S. C	July 19, 1898
Falling rice, polishing James J. Cordes London, England Sept. 19, 188 Halling rice, polishing Mody Northampton, Mass Aug. 29, 183 Hulling rice, polishing Milling Rose Milling Rose Milling Rose Northampton, Mass Aug. 29, 183 Hulling rice, polishing Milling Rose Northampton, Mass Aug. 29, 183 Aug. 20, 184 Aug. 20, 284 Aug. 2		Asa Nourse		April 3, 1890
Halling rice, polishing Jos. Beach & S. Starr Middletown, Ct. May 10, 188				Dec. 16, 1898
Hulling rice, polishing. Hulling rice, pounding. Alexander D. Moore. St. Luke's, S. C. June, 19 169 Hulling rice, souring. Hulling rice, scouring. Hulling rice, machinery for. Hulling rice, machinery for. Hulling rice, machinery for. Warner Grost. Troy, N. Y. Ang. 28, 184 Hulling rice, machinery for. William C. Grimes. Webster Herrick. Work, Pa. June, 28, 184 Hulling and peeling rice. Jacob Groat. Troy, N. Y. April 8, 184 Hulling and peeling rice. Jacob Groat. Troy, N. Y. April 8, 184 Hulling, Mark L. Wilson. Lime, &c., spreading. Julius Hatch. Daniel F. Hill. Plainfield, N. J. Great Bend, Pa. Aug. 31, 183 Aug. 29, 183 Jan. 19, 180 June 19, 180 June 20, 181 June 50, 181 June 50, 181 June 50, 181 June 50, 181 June 20, 184 Krauss. June 20, 184 Krauss. June 21, 184 Krauss. June 22, 184 Krauss. June 22, 184 Krauss. June 23, 184 Krauss. June 24, 184 Krauss. June 24, 184 Krauss. June 24, 184 Karel Daviel Commits, Colorable, Marticelen, Marticelen				Sept. 19, 183
Hulling rice, polishing. Hulling rice, polishing. Hulling rice, polishing. Hulling rice, pounding. As Nourse. Hulling rice, pounding. As Nourse. Hulling rice, pounding husks. Hulling rice, pounding husks. Hulling rice, scouring. Hulling		T. F. Strong & M. T.		May 10, 1838
Hulling rice, pounding. Hulling rice, pounding. Hulling rice, pounding. Hulling rice, pounding. Hulling rice, pounding husks. Hulling rice, pounding husks. Hulling rice, scouring. Hulling rice, scou		_Moody		Aug. 29, 1832
Hulling rice, pounding. Alexander D. Moore. Hulling rice, pounding. Hulling rice, pounding basks. Hulling rice, and rubbing wheat Hulling rice, and rubbing wheat Hulling rice, scouring. Hulling ric		Jonathan Lucas		
Hulling rice, pounding husks. Hulling rice, pounding husks. Hulling rice, and rubbing wheats. Hulling rice, scouring. Hulling			Savannah, Ga	
Hulling rice, pounding husks Hulling rice, and rubbing wheats Hulling rice, scouring Hulling rice, scouring Hulling rice, scouring Joseph Beach Hulling rice, machinery for William C. Grimes. William C. Grimes. William C. Grimes. William C. Grimes. Worley, Pa Norfolk, Va Norfolk, Va Mark L. Wilson Howing, spreading Mark L. Wilson And'w Krauss & Joel Krauss Lime, &c., spreading Mark L. Wilson Laime, &c., spreading Mark L. Wilson Janie Hatch Andw Krauss & Joel Krauss Lime, &c., spreading Daniel F. Hill. Johnie Hatch Great Bend, Pa Aug. 17, 183 Chester, Pa Aug. 18, 184 Chester, Pa Aug. 17, 183 Baltimore, Md. Jule Velle, 184 Chester, Pa Aug. 17, 184 Chester, Pa Aug. 18, 184 Chester, Pa			New Hanover, N.C.	
Hulling rice, scouring	Hulling rice, pounding	Asa Nourse		
Hulling rice, scouring. Hulling rice, scouring. Hulling rice, and working trip hammer. Hulling rice, &c. Hulling rice, acan working trip hammer. Hulling rice, &c. Hulling rice, machinery for. Hulling rice, machine, machine. Hulling rice, machines, or form the footh for the footh for the footh for the footh footh for the footh			Charleston, S. C	June 9, 1809
Hulling rice, scouring. Samuel Mulliken. Sprokfeld, Ct. May 12, 184 Brookfeld, Ct. May 12, 184 Brookfyn, N. Y. July 11, 184 Brookfyn, N. Y. July 11, 184 Brookfyn, N. Y. July 11, 184 Brookfyn, N. Y. Sept. 3, 184 Shooking, N. Y. Sept. 3, 184 Shooking, N. Y. Sept. 3, 184 Chester, Pa. Aug. 17, 183 Shallmore, Md. July 5, 183 Shallmore, Md. July 14, 184 Shooking, N. J. Spl. 184 Shooking, N.	Hulling rice, and rubbing wheat*.		D 1.1	7 0 1000
Hulling rice, and working trip hammer				
Hulling rice, and working trip hammer			South Carolina	
hammer	Hulling rice, scouring	Samuel Mulliken	• • • • • • • • • • • • • • • • • • • •	Feb. 20, 1797
Hulling rice, &c	Hulling rice, and working trip			_
Hulling rice, machinery for Hulling rice, machinery for Hulling rice and other grains Hulling rice and other grains Hulling and pearling rice Liulling and pearling rice Liulling and pearling rice Clark Jacobs Brookfield, Ct May 12, 184 Vork, Pa Oct. 8, 184 Hulling and pearling rice Clark Jacobs Brookfield, Ct Morthampton, Mass, June 26, 184 Hulling and pearling rice Clark Jacobs Brooklyn, N. Y. Sept. 3, 184 Hulling and pearling rice Clark Jacobs Brookfield, Ct Morthampton, Mass, June 26, 184 Hulling rice and other grains Hulling and pearling rice Clark Jacobs Brooklyn, N. Y. Sept. 3, 184 Hulling rice and other grains Horthampton, Mass, June 26, 184 Hulling and pearling rice Clark Jacobs Brooklyn, N. Y. Sept. 3, 184 Hulling rice and other grains Horthampton, Mass, June 26, 184 Hulling and pearling rice Clark Jacobs Brookfield, Ct Morthampton, Mass, June 26, 184 Hulling and pearling rice. Clark Jacobs Brooklyn, N. Y. Sept. 3, 184 Hulling and pearling rice. Clark Jacobs Brooklyn, N. Y. Sept. 3, 184 Hulling and pearling rice. Clark Jacobs Horthampton, Mass, June 26, 184 Hulling and pearling rice. Clark Jacobs Horthampton, Mass, June 28, 183 Horthampton, Mass, June 29, 184 Hulling and pearling rice. Clark Jacobs Horthampton, Mass, June 24, 184 Hulling and pearling rice. Lime, &c., spreading Julius Hatch. Great Bend, Pa. Aug. 17, 183 Haughertown, Pa. July 11, 184 Horthampton, Mass, June 20, 184 Hulling and sowing Levi Rice. Lime, &c., spreading Lime, &c., spreading Julius Hatch. Great Bend, Pa. Aug. 17, 183 Haughertown, Pa. Haughertown, Pa. Haughertown, Pa. Haughertown, Pa. Haughertown, Pa. Haughertown, Pa. Haughert	hammer	Joseph Beach	Middletown, Ct	
Hulling rice, machinery for. William C. Grimes. York, Pa. Oct. 8, 184 Hulling rice and other grains. Webster Herrick. Northampton, Mass, June 26, 184 Hulling and pearling rice. Jacob Groat. Troy, N. Y. July 11, 184 Hulling and pearling rice. Clark Jacobs. Brooklyn, N. Y. Sept. 3, 184 Lime, spreading. Mark L. Wilson. Brooklyn, N. Y. Sept. 3, 184 Lime, spreading. Mark L. Wilson. Levi Rice And'w Krauss & Joel Krauss. Lime, cc., spreading. And'w Krauss & Joel Krauss. Upper Milford, Pa. Oct. 16, 183 Great Bend, Pa. Aug. 31, 183 Lime, &c., sowing. Julius Hatch. Great Bend, Pa. Aug. 17, 183 Lime, &c., sowing. Julius Hatch. Great Bend, Pa. Aug. 17, 183 Manure and compost. Anthony D. Martin. Manure and compost. Anthony D. Martin. Milk, preserving. John L. Granger. Mest Turin, N. Y. July 14, 183 Mowing, cutting, and gathering flax, hemp, &c. John L. Granger. John L. Granger. Mowing, cutting, and gathering flax, hemp, &c. Chesterly. Hindsburg, N. Y. Sept. 5, 184 West Turin, N. Y. July 14, 183 Mowing, cutting, threshing, and winnowing grain. Mowing, harvesting machines. Mowing, hereparing machines. George Esterly. Heart Prairie, W. T. April 6, 184 Mowing, hereparing machines. George Esterly. Heart Prairie, W. T. Mowing, hemp cradles. Griffin Reynolds, jr. Asa P. Trask & Davis Aldrich. Seth Lamb. New York. June 20, 184 Mowing, reaping machine. George Esterly. Heart Prairie, W. T. Mowing, reaping machine. Griffin Reynolds, jr. Asa P. Trask & Davis Aldrich. Seth Lamb. New York. June 20, 184 Mowing, reaping machine. Griffin Reynolds, jr. Asa P. Trask & Davis Aldrich. Seth Lamb. New York. June 20, 184 Mowing, reaping machine. Griffin Reynolds, jr. Asa P. Trask & Davis Aldrich. Seth Lamb. New York. June 20, 184 Mowing, reaping machine. Griffin Reynolds, jr. Asa P. Trask & Davis Aldrich. Seth Lamb. New York. June 20, 184 Mowing, reaping machine. Griffin Reynolds, jr. Asa P. Trask & Davis Aldrich. Seth Lamb. New York. June 20, 184 Mowing, reaping machine. Griffin Reynolds, jr. Asa P. Trask & Davis Aldrich. Seth Lamb. New York	Hulling rice, &c	Warner Groat	Troy, N. Y	Aug. 28, 1840
Hulling rice and other grains. Webster Herrick. Northampton, Mass, June 26, 184 Hulling and pearling rice. Jacob Groat. Troy, N. Y. July 11, 184 Land, clearing. Thomas Oxley. Norfolk, Va. April 18, 183 Lime, spreading. Mark L. Wilson. Quakertown, Pa. June 22, 183 Lime, spreading and sowing. Levi Rice. And Wkrauss & Joel Krauss. July 2, 183 Lime, &c., spreading. And Wkrauss & Joel Krauss. July 2, 183 Lime, &c., spreading. Julius Hatch. Great Bend, Pa. Aug. 17, 183 Lime, &c., sowing. Julius Hatch. Great Bend, Pa. Aug. 17, 183 Lime, &c., sowing. Julius Hatch. Great Bend, Pa. Aug. 17, 183 Lime, &c., sowing. Julius Hatch. Great Bend, Pa. Aug. 17, 183 Lime, &c., sowing. Julius Hatch. Great Bend, Pa. Aug. 17, 183 Lime, &c., sowing. Julius Hatch. Great Bend, Pa. Aug. 17, 183 Lime, &c., sowing. Julius Hatch. Great Bend, Pa. Aug. 17, 183 Lime, &c., sowing. C. Baer & J. Gouliart. Baltimore, Md. June 24, 184 Milk, preparing for butter & cheese Milk, can far. Antennas Crittenden. Richard M. Cooch. Lambertsville, N. J. July 14, 163 Mowing, catting, grasu under water July 14, 163 Mowing, harvesting machines, cutting, threshing, and winnowing grain. And William F. Ketchum. Cyrus H. McCormick Mowing, reaping machine. Mowing, reaping machine. Mowing, seythes to snaths attaching. Sept. 30, 184 Mowing, seythes to snaths attaching. Mowing, seythes, fastening the thole upon the snath.	Hulling rice, machinery for	Daniel Tomlinson	Brookfield, Ct	May 12, 1840
Hulling and pearling rice	Hulling rice, machinery for	William C. Grimes	York, Pa	Oct. 8, 1840
Hulling and pearling rice	Hulling rice and other grains	Webster Herrick	Northampton, Mass,	June 26, 1841
Hulling and peeling rice		Jacob Groat	Troy, N. Y	July 11, 1844
Lime, spreading	Hulling and peeling rice	Clark Jacobs		Sept. 3, 1846
Lime, spreading	Land, clearing	Thomas Oxley	Norfolk, Va	April 18, 1821
Lime, spreading and sowing. Lime, &c., spreading Lime, &c., spreadi				June 22, 1832
Lime, &c., spreading and sowing. Lime, &c., spreading Lime, and Liminford, Pa. Liminford, Pa. Liminford, N. J. Baltimore,				July 5, 1837
Lime, &c., spreading And'w Krauss & Joel Krauss Upper Milford, Pa C. I. 16, 183 Aug. 17, 183 Aug. 1	Lime, spreading and sowing	Levi Rice	Chester, Pa	Aug. 31, 1837
Lime, &c., spreading Daniel F. Hill Plainfield, N. J. Feb. 10, 183 Aug. 17, 18		And'w Krauss & Joel		•
Lime, &c., spreading Julius Hatch Daniel F. Hill Da		Krauss	Upper Milford, Pa	Oct. 16, 1830
Lime, &c., spreading Julius Hatch Great Bend, Pa. Aug. 17, 183 Manure and compost Anthony D Martin Baltimore, Md. June 24, 184 Milk, can far Anthony D Martin Baltimore, Md. June 24, 184 Milk, preserving Artemas Crittenden West Turin, N. Y. July 14, 183 Mowing, cutting, and gathering flax, hemp, &c John L. Granger New York city Mar. 19, 183 Mowing, cutting, and gathering flax, hemp, &c C. Brown & F. S. Crans Mowing, cutting, & cleaning grain Mowing, grain cradlest C. Brown & F. S. Crans Mowing, harvesting grain Alfred Churchill Hoosick Falls, N. Y. April 6, 184 Mowing, harvesting machines, cutting, threshing, and winnowing grain Alfred Churchill George Esterly Heart Prairie, W. T. George Esterly Heart Prairie, W. T. Washington, N. Y As P. Trask & Davis Aldrich Seth Lamb Seth Lamb Seth Lamb William F. Ketchum Mowing, reaping machine William F. Ketchum Seth Lamb Seth Lamb Shelburne, Mass July 2, 183 Mowing, scythes to snaths attaching William F. Ketchum Shelburne, Mass July 2, 183 Mowing, scythes, fastening the thole upon the snath Shelburne, Mass July 2, 183 Aug. 4, 184	Lime, &c., spreading	Julius Hatch		Aug. 17, 1835
Lime, &c., sowing				Feb. 10, 1838
Manure and compost				
Manure, making				
Milk, preparing for butter & cheese Milk, preserving				
Milk, preparing for butter & cheese Mowing, — See Outling Mowing, cutting, and gathering flax, hemp, & c. Mowing, cutting grass under water Mowing, grain cradles; C. Brown & F.S.Crans Wm. A. Wood & J. C. Loveland Alfred Churchill Mowing, harvesting grain Mowing, harvesting machines Mowing, harvesting machines Mowing, hemp cradles Mowing machine Mowing machine Mowing, reaping machines Mowing, reaping machine Mowing, reaping machine Mowing, scythes to snaths attaching Mowing, scythes, fastening the thole upon the snath. Mowing, scythes, fastening the thole upon the snath. John L. Granger New York city Max. 19, 183 Max. 19, 183 Max. 19, 184 Hindsburg, N. Y Barton, N. Y April 6, 184 Hoosick Falls, N. Y George Esterly Heart Prairie, W. T. George Esterly Washington, N. Y Washington, N. Y May 4, 184 Oct. 22, 184 Oct. 16, 183 New York city Mar. 19, 183 Mar. 19, 184 Hindsburg, N. Y Barton, N. Y April 6, 184 Hoosick Falls, N. Y Heart Prairie, W. T. Washington, N. Y Washington, N. Y Washington, N. Y Nov. 18, 184 Nov. 18, 184 Oct. 16, 184 Oct. 22, 184				
Mowing,—See Cutting. Mowing,—See Cutting. Mowing, cutting grass under water Mowing, grain cradles; Mowing, harvesting grain Mowing, harvesting machines, cutting, threshing, and winnowing grain Mowing, hemp cradles. Mowing, hemp cradles. Mowing, hemp cradles. Mowing machine. Mowing machine. Mowing machine. Mowing reaping machines. Mowing, reaping machine. Mowing, reaping machine. Mowing, scythes to snaths attaching. Mowing, scythes, fastening the thole upon the snath.			•	
Mowing, cutting, and gathering flax, hemp, &c. Mowing, cutting, are grass under water Mowing, cutting, & cleaning grain Mowing, grain cradles; C. Brown & F. S. Crans Wm. A. Wood & J. C. Loveland			New York city	Mar. 19, 1836
flax, hemp, &c. Mowing, cutting grass under water Mowing, cutting, & cleaning grain Mowing, grain cradles; Mowing, harvesting grain. Mowing, harvesting grain. Mowing, harvesting machines, cutting, threshing, and winnowing grain Mowing, harvesting machines. Mowing, reaping machine. Mowing, reaping machine. Mowing, reaping machine. Mowing, reaping machine. Mowing, scythes to snaths attaching. Mowing, scythes, fastening the thole upon the snath. Richard M. Cooch. Hindsburg, N. Y. Hoosick Falls, N. Y. Geneva, Ill. Hoosick Falls, N. Y. May 4, 184 Oct, 22, 184	Mowing.—See Cutting.		,	
Mowing, cutting grass under water Mowing, cutting, & cleaning grain Mowing, grain cradlest	flax, hemp, &c	Richard M. Cooch	Lambertsville, N. J.	July 16, 1841
Mowing, cutting, & cleaning grain Mowing, grain cradlest	Mowing, culting grass under water			
Mowing, harvesting grain			Barton, N. Y	
Mowing, harvesting grain Mowing, harvesting machines, cutting, threshing, and winnowing grain Mowing, harvesting machines Mowing, harvesting machines Mowing, hemp cradles Mowing machine Mowing machine Mowing machine Mowing reaping machines Mowing, reaping machine Mowing, scythes to snaths attaching Mowing, scythes, fastening the thole upon the snath. C. Loveland Hoosick Falls, N.Y. Geneva, Ill Heart Prairie, W.T. George Esterly. Heart Prairie, W.T. Washington, N.Y. New York Seth Lamb William F. Ketchum. Buffalo, N.Y. Nov. 13, 184 Oct, 22, 184 Oct, 22, 184 New York New York June 20, 184 Rockbridge, Va Jan. 31, 184 Ferdinand Woodward Libenezer G. Lamson. Selah W. Fox & Aretas Ferry Bernardstown, Mass. Alfred Churchill Heart Prairie, W.T. Oct, 22, 184 Shelburne, N.Y. Sept. 30, 184 Bernardstown, Mass. Alfred Churchill May 4, 184		Wm. A. Wood & J.		.,
Mowing, harvesting grain			Hoosick Falls, N.Y.	Nov. 13, 1844
Mowing, harvesting machines, cutting, threshing, and winnowing grain	Mowing, harvesting grain			
grain	Mowing, harvesting machines, cut-		,	
Mowing, hemp cradles			Friendship N V	May 4 1941
Mowing machine	Marriag harvasting machine	Cooper Francis	Lichustup, IV. I	Oct 00 1044
Mowing machine	Marine harvesting machines	George Esterly	Heart Prairie, W. 1.	Man 20 1044
Mowing machine			wasnington, Ay	May 30, 1044
Mowing, reaping machine	MIOWING MACNING		Dilleran N. V	0-4 10 1000
Mowing, reaping machines William F. Ketchum. Buffalo, N. Y Nov. 18, 184 Mowing, reaping machine Cyrus H. McCormick Rockbridge, Va Jan. 31, 184 Mowing, scythes to snaths attaching Ebenezer G. Lamson. Selah W. Fox & Arethole upon the snath. William F. Ketchum. Buffalo, N. Y Nov. 18, 184 Cyrus H. McCormick Rockbridge, Va Jan. 31, 184 Upper Freehold, N. J. Sept. 30, 184 Sept.	Marring mashing		Name Vanis	Tune 00 1040
Mowing, reaping machine Cyrus H. McCormick Rockbridge, Va Jan. 31, 184 Mowing, reaping machine Ferdinand Woodward Upper Freehold, N.J. Sept. 30, 184 Mowing, scythes to snaths attaching Shelburne, Mass Shelburne, Mass July 2, 183 Mowing, scythes, fastening the thole upon the snath. Sept. 30, 184 Mowing, reaping machine Fordinand Woodward Upper Freehold, N.J. Sept. 30, 184 Shelburne, Mass July 2, 183 Bernardstown, Mass. Aug. 4, 184			Ducale M V	
Mowing, reaping machine Férdinand Woodward Upper Freehold, N.J. Sept. 30, 184 Mowing, scythes to snaths attaching				
Mowing, scythes to snaths attaching Ebenezer G. Lamson. Shelburne, Mass July 2, 183. Mowing, scythes, fastening the thole upon the snath. Ebenezer G. Lamson. Shelburne, Mass July 2, 183. Bernardstown, Mass. Aug. 4, 184.				
ing			obber r teepora'ta".	Dept. 30, 1845
Mowing, scythes, fastening the thole upon the math. Selah W. Fox & Aretas Ferry Bernardstown, Mass. Aug. 4, 184			CI . 11	T1. 0 1000
thole upon the snath. tas Ferry Bernardstown, Mass. Aug. 4, 184			oneiburne, Mass	1013 x, 1839
· · · · · · · · · · · · · · · · · · ·		Seian W. Fox & Are-	D3-4 3.5	A 4 1044
* Ante dated August 11, 1837. † Reissued January 9, 1838. † Ante dated Nov. 9, 1844.	more upon the math.	tas Ferry	Demaruscown, Mass.	Aug. 4, 1541
	* Ante dated August 11, 1837.	† Reissued January 9, 185	8. ‡Ante dated No	v. 9, 1844.

*			
TRÁTERATIÓNS OS DESCOMBUESS	PATENTES.	PHIDERCS.	very Miceo.
Mowing, scythes, securing upon			
the snath and fastoning the nib	'		
to the same	Silas Lamson	ShelburneFalls, Mass	July 1, 1841
Mowing scythes, fastening the	Samuel Garfield, ass'e		
nibs of.	of Thos. W. Harvey	Jamestown, N. Y	April 6, 1842
Plant, applicable to various uses	Charles Whitlaw	New York	Jan. 11, 1812
Plants, insects, &c., mode of de-			T 10 1002
Stroying	Joseph Nicholas	La Fourche, La	June 13, 1831
Planting machine	Enoch Woods Charles Newbold	Beloit, Wisconsin T. New Jersev	Jan. 10, 1845 June 26, 1797
Plough	John Deaver	Baltimore, Md	June 12, 1804
Plough	David Peacock	Burlington, N. J	April 1, 1807
Plough	Hez. Harris	Bullit, Ky	Feb. 24, 1808
Plough	Richard B. Chenoweth	Baltimore, Md	Nov. 25, 1808
Plough	John Klay	Fredericktown, Md.	Jan. 11, 1812
Plough	Roswell Tonsley	Cayuga co., N. Y	Jan. 11, 1812
Plough	John Seitz	Strasburg, Pa	Feb. 8, 1613
Plough	Matthew Patrick	Scipio, N. Y	June 2, 1813
Plough	Matthew Murray Horace Pease	Middletown, Md Enfield, Ct	Aug. 7, 1813 Aug. 28, 1813
Plough	Jethro Wood	Scipio, N. Y	July 1, 1814
Plough	John Swann	Scipio, N. Y	
Plough	J. Morgan & J. B.		,
	Harris	Scipio, N. Y	Oct. 11, 1814
Plough	Henry Shultze	Lancaster, Pa	Dec. 17, 1814
Plough	David Peacock	New Mills, N. J	May 29, 1817
Plough	Gideon Davis	Sandy Spring, Md.	May 26, 1818
Plough	Samuel Ogle	Graceham, Md	June 9, 1818 Oct. 26, 1818
Plough	Perry Miller Lemuel Goodrich and	Washington co., N.Y	Oct. 20, 1016
g	John Adams	Hudson, N. Y	Dec. 3, 1818
Plough	Richard N. Harrison.	New York	Dec. 19, 1818
Plongh	George D. Avery	Wood co., Va	Dec. 28, 1818
Plough	Stephen McCormick	Fauguier c. h., Va	Feb. 3, 1819
Plough	Zadock Harris	Harword, N. Y	Mar. 17, 1819
Plough	A. Tice & Isaac Tice.	Union Village, N. Y.	Aug. 21, 1819
Plough	Jethro Wood Cornelius Bergen	Poplar Ridge, N. Y. Brooklyn, N. Y	Sept. 1, 1819 Nov. 11, 1819
Plough	James Swartwout	Taghkanic, N. Y	Nov. 13, 1819
Plough	P. H. Marshall and		2.0 20, 2020
	Jacob B. Smith	Lambertville, N. J	Mar. 3, 1820
Plough	George Gibbs	New York	Mar. 8, 1820
Plough	John W. Jenkins	Hudson, N. Y	July 6, 1820
Plough	John S. Wright	Greenwich, N. Y	July 28, 1820
Plough	R. & E. A. Stephens Chs. Wood & Gilbert	Hoboken. N. J	Sept. 13, 1820
T. 1008 H	Brundage	BloomingGrove, N.Y	Nov. 9, 1820
Plough	O. Phelps & G. Moore-	Diodiningarovoji	21011 0, 2000
	house	Lansing, N. Y	Nov. 17, 1821
Plough	David Peacock	Northampton, N. J	Jan. 21, 1822
Plough	William G. Shuart	Orange co., N. Y	Feb. 5, 1822
Plough	C. G. Gill and James	a . a a	36 05 1000
Dionak	Gill (B. S.)	Chester, S. C Montgomery co. N.Y	Mar. 25, 1822
Plough	John Gibson	West Chester, N. Y.	
Plough	Abijah Lee	Troy, N. Y	Sept. 14, 1822
Plough	Peter J. Clute	Schenectady, N. Y.	Nov. 16, 1822
Plough	Ryland Rhodes	Albemarle co., Va	Feb. 25, 1823
Plough	George Nixon	New York	June 3, 1823
Plough	David Hitchcock	New York	July 16, 1823
Plough	Obed Hackney	Lebanon, Ohio	Aug. 29, 1823
Plough	John Nash	Talmage, Ohio	Oct. 14, 1823
Plough	A. Spicer, jr. and J. Tower.	Portage towns'p, Tal- mage co., Ohio	Sent. 25, 1894
1	TOMEL.	mage co., Omo	mehr en toss

Disclaimer, Feb. 94, 1838, May 96, 1838; renewed from 31st Aug., 1833, by act of Congress of May 19, 1832.

experients or discovering	PATEWYERS.	regreence.	WHEN MADES.
Piough	James Y. Hunt	Turnbridge, Vt	Dec. 94, 183
Plough	Garland Ellington	Madison co., Ala	Dec. 25, 1824
Plough	Phineas Pettis	Portage co., Ohio	Feb. 15, 182
Plough	George D. Avery	Georgetown, D. C	Feb. 15, 182
Plough	. George D. Avery	Georgetown, D. C	Mar. 25, 1824
Plough	. Stephen W. Whitman	Harpersfield, Ohio	May 7, 182
Plough*	. Gideon Davis	Georgetown, D. C	Oct. 1, 182
Plought	Stephen McCormick	Fauquier, Va	Jan. 28, 189
Ptough	. William Cocke	Luzerne towns'p, Pa.	April 28, 182
Plough	. Z. S. Holbridge & H.	•	· ·
3	S. Lawson	Byrne, N. Y	Aug. 9, 182
Plough	. Ryland Rhodes	Charlottesville, Va	Feb. 20, 182
Plough	. William Beach	Philadelphia, Pa	June 27, 182
Plough	. William Wiard	Avon, N. Y	Jan. 26, 182
Plough	. Richard Loveridge	Knox co., Ohio	Mar. 8, 182
Plough	. Charles Howard	Hingham, Mass	Mar. 10, 182
Plough	. John Deats	Middletown, Pa	April 26, 182
Plough	. James Boatwright	Columbia, S. C	June 11, 182
Plough	. John Rhodes	Urbana, Ohio	June 11, 182
Plough	. Thomas Brown	New York	Sept. 11, 182
Plought	. Timothy Miller	Pittsburgh, Pa	Oct. 23, 182
Plough	. John Anthony	Zanesville, Ohio	Feb. 1, 183
Plough	. Timothy Miller	Pittsburgh, Pa	Feb. 15, 183
Plough	Barnabas Thacker, jr.	Barnstable, Mass	July 20, 183
Plough	. Wm. Savage & Heze-		
G	kiah Davidson	Horsewell, Ky	Aug. 24, 183
Plough	. William Black	Ann Arundel co., Md	
Plough	John Carothers	Shirleysburg, Pa	Dec. 10, 183
Plough§	. Horace ass. of J. Deats	Roxbury, N. J	Dec. 28, 183
Plough	Thomas A. Whities	Bellefontaine, Ohio	Jan. 14, 183
Plough	S. Witherow, ass'e of	,	1
	Samuel Ogle	Adams co., Pa	Feb. 28, 183
Plough	. Joseph Dudley	Fleming co. Kv	May 8, 183
Plough	. George Crowl	Sleepy creek, Va	June 27, 183
Plough	. George Wolf	Fairfield co., Ohio	June 27, 183
Plough	. John Moore	Cynthiana, Ky	Aug. 17, 183
Plough	. George W. Palmer	Jefferson towns'p, O.	Aug. 17, 183
Plough	. John Weaver	Brownsville, Pa	Aug. 17, 183
Plough	. John Buch	East Rushville, Ohio	
Plough	. Harry Speihlman and		, , , , ,
	Daniel Miller	Lancaster, Pa	Mar. 25, 183
Plough	. Lewis Donnell	Jefferson towns'p, O.	July 23, 183
Plough	Charles B. Taylor	Bainbridge, Ohio	Aug. 23, 183
Plough	Elisha Kelley	Bainbridge, Ohio	Aug. 26, 183
Plough	Sarah Evans, ex'x, &		12.3. 20, 200
	J. McFaden, ex'or of		
	G. Evans	Pittsburgh, Pa	Sept. 18, 183
Plough	Joseph P. Sharp	Genesce, N. Y	Dec. 20, 183
Plough	David Staehler	Lancaster, Pa	Mar. 15, 183
Plough	John Morford	Maysville, Ky	April 8, 183
lough	Shem Zook	Armagh towns'p, Pa.	
lough	James Jacobs	Maysville, Ky	July 8, 183
Hough	James Jacobs	Maysville, Ky	July 8, 183
Plough	. Henry Peachey	Philadelphia, Pa	
lough			Oct. 9, 183
Nough	David Ghormley	Wayne township, O.	
lough	Nathan Robinson		
lough	Toponh Tinkler	Warwick towns'p,O.	Mar. 2, 183
lough	Nothen Reben	Penn towns'p, M. T.	
Jough	William Ham	Lower Soneon De	Mar. 27, 18
Plough	Samuel Clina	Plumstead, Pa	July 17, 183
Yough		Flutisicau, Fa	July 11, 100
Plough		Turbet Pe	Sent 19 191
	fenbacher	Turbet, Pa	Dehr. 10, 100
* Reissued March 6, 1833.	† Reissued October 22, 1	! 8 28. ! Reissued J	ulv 17, 1836.
membrea wrien a' 1609.	I THE COMPANY OF THE PARTY OF T		_, _ ,

^{*} Reissued March 6, 1833. § Reissued May 16, 1845.

Reissued July 17, 1835.

[†] Reissued October 22, 1838. # Disclaimer, May 7, 1938.

MARITIMES OR DISSOFTINGE.	PARSHERMO.	rempercs.	William !	P1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
lough	William Walker	Washingtonville, Pa.	Oct.	6, 18
lough	Jarius S. Tefft	Amherst, N. Y	Oct. 1	7, 10
lough	John Dolhaner		Jan. 1	5, 18
	Samuel Witherow			5, 18
lough	J. J. Chandler and P.	Genyabung, La	Juli. 1	0, 10
lougn		Mileon Mo	Jan. 2	A 18
• • •	Ranger	Milton, Me		4, 18
lough	William P. Cannon	Monroe co., Tenn		
lough	D. Prouty & J. Mears			4, 18
lough	John Farlee	Mercer co., Ky	April 2	
lough	Nathan Locklin		April 2	
lough			June	
lough			June 1	
lough				2, 18
lough	Isaac Snider	Mount Pleasant, Pa.	"	2, 18
lough				1, 18
lough	B. Woodcock		Nov. 2	
lough*	Bancroft Woodcock	Mount Pleasant, Pa.	June 1	4, 18
lough	S. Hartpence & John			
	D. Bowne			5, 18
lough	John C. Smith		July 1	
lough	Job B. Norton	Philadelphia, Pa	July 1	7, 18
lough	Isaac Snider	Mount Pleasant, Pa.		
lough	John Deats	Roxbury, N. J	July 3	
lough	Stephen McCormick	Auburn, Pa	Dec.	1, 18
lough	William T. Sprouse		Feb. 1	5, 18
lough	Henry Taylor		May 1	
lough	D. Prouty & J. Mears		Sept. 1	
lough	John Deats	Roxbury, N. J	Nov. 2	
lough	William Small	North Argyle, Mass		
lough			July 1	
lough	Ambrose Barnaby	Ithaca, N. Y	Sept. I	
lough	Josiah Dutcher			9, 18
lough	William Bryant		Mar. 3	
lough	George Watt		April 1	
lough	Thomas Wiard		April 1	
lough	Nathan Hull	De Kalb, Miss	May 1	
lough.			May 1	
lough	Cornelius Bergen Barnabas Langdon	Trong N V	June 2	
lough			July 1	
lough			Aug. 2	5 18
lough			Sept. 2	
lough			Mar. I	
lough			April	
lough	Jeremiah Gallatin		April 1	
lough	Harvey H. May		May	2, 10 10
lough	John Nash	Middlebury, Ohio	May 2	
lough	Thomas B. Quigley	Manafield, Ohio	June 1	
lough	John Moore		July 2	
lough	William Black		Sept. 1	.4, 18
lough	Joel S. Eastman, ass'e			
	of George Clezy	Baltimore, Md	Sept. 1	
lough				
lough	James M. Moore			
lough	John Thompson	Ripley, Ohio	April 1	
lough	Aaron Smith			6, 18
lough	Jonathan Mooers			1, 18
lough	Anthony Taylor		Dec. 1	9, 18
lough	Bancroft Woodcock	Wheeling, Va	Jan. 3	11, 18
	Seth J. Roberts	Jeffersonville, Pa	Feb. 1	l 2 . 18
lough			Feb. 2	0, 18
lough	Ephraim Ball			
lough			July 1	
loughlough	Samuel Shearer William Bullock	Big Prairie, Ohio Jersey City, N. J	July 1 July 3	14, 18
lough	Samuel Shearer William Bullock	Big Prairie, Ohio Jersey City, N. J	July 1 July 3	14, 18 W, 18

^{*}Rel-sued Nov. 23, 1837; additional improvement Sept. 26, 1838.

DIVENTIONS OR DISCOVERIES.	PATHIFFINES.	Kensunce.	WHEN MITED.
Piough*	Н. Н. Мау	Galesburg, Ill	April 25, 1846
Plough	James Johnson	Wooster, Ohio	
Plough	John M. Cullen	Benton, Miss	May 30, 1846
Plough	Charles L. Meech	Preston, Ct	
Plough	Samuel Wilt	Hagerstown, Md	Sept. 3, 1846
Plough	Jno. & Cyrus Krauser	Reading, Pa	
Plough, adjusting	William K. Allan	Brownston, Ky	
Plough, agricultural	Abel D. Armstrong	Springfield, Ohio	Jan. 15, 18 3 0
Plough, altering the set of the same	Marshall Mims & Sea-		
	born_J. Mims	Starkville, Miss	
Plough, angular		Virginia	
Plough, auburn	Wm. F. Richardson	Auburn, N. Y	
Plough, bar-share	John & Joshua Butler.	Brandy wine & Ches-	
		ter counties, Pa	Mar. 1, 1814
Plough, bar-share	Eli Pugh	Chatham co., N. C	Dec. 24, 1827
Plough, bar-share	John Deakyns	Petereburg, Va	Nov. 18, 1828
Plough, bar-share	Adam Mitchell	Washington co.,Ten	Oct. 1, 1830
Plough, bar-share	Samson Felton	Huntington, Pa	Nov. 1, 1830
Plough, bar-share	Edward M. Waggene	Adair co., Ky	Jan. 12, 18 31
Plough, bar-share	Moses Huffman	Elizabeth, Tenn	
Plough beams	Joel Houghton	Ogden, N. Y	
Plough, breaking & cultivating, &c.		Industry, Maine	Sept. 18, 1835
Plough, bull	Sylvanus Tonsley	Onondaga co., N. Y.	May 28, 1813
Plough, bull	R. Tonsley & J. Swann		Nov. 9, 1814
Plough, carey bull	Benjamin Johnson	Hickory Grove, Ill.	
Plough, cast iron	John Seaver & J. Fay		Dec. 14, 1820
Plough, cast iron	A. L. & E. A. Stephens		
Plough, cast iron	George J. King		
Plough, cast iron	Obed Seely		
Plough, cast iron	William Falconer		
Plough, cast iron	David Hitchcock		
Plough, cast iron			, Feb. 12, 1822
Plough, cast iron			T
701 1	Emery		
Plough, cast iron	J. J. Schoonmaker &		
Though and inch	J. Dolson.	. Newton, N. J	. Dec. 7, 1022
Plough, cast iron	Thomas Altason		
Plough, cast iron		Vernon, N. Y	. May 11, 1024
Plough, cast iron	D. Chase and A. & J.	Dalmann N V	A. 4 1004
Plauch seet iron	Thoddon Foirbonka	Palmyra, N. Y	. Λυσί 10 1996
Plough, cast iron	Thaddeus Fairbanks.	St. Johnsbury, Vt Warren co., Ohio	
Plough, cast iron	Jacob Minturn	Urbana, Ohio Washington, Del	April 01 192
Plough, cast iron	Derrick Barnard Charles Pawling		
		Gregg township, Pa Toboyne towns'p,Pa	May 95 1966
Plough, cast iron	Samuel Nisbet	Harrisburg, Pa	Tune 0 192
Plough, cast iron		Green towns Ohi	1 Dec 96 1929
Plough, cast iron, cutter for		. Green towns'p, Ohio . Cayuga co., N. Y	April 94 189
Plough, cast iron, double pointed		. Cayaga co., 14. I	April 24, 10a
wing		. Addison, Vt	Ten 90 189
Plough, cast iron, hill side, double	William C. Fancost.	. Zidanson, v	, Jan. 20, 104
nose		Dernuter N V	April 19 1896
Plough, cast iron, malleable	Cyrus Alger		
Plough, cast iron, or wrought	Nathaniel Gillet, jr	. Talmage towns'p, 0	Sept. 24, 182
Plough, cast iron			
Plough, clevis	. Aaron Carman	Columbus, N. J	
Plough, clevist			
Plough, combined t	Samuel Clime	New Britain, Pa	. Nov. 12, 183
Plough, combined	Jonathan Knodle		
Plough, combined	James Parsons, jr	Dublin, Ind	. Dec. 12, 184
Plough, combined	Harvey Brown	Payson, Ill.	
Plough, common	Nicholas Turbutt	Fredericktown, Md	1
	A MI DUIL	- I COLORAWWII, MIU	.,
	,	1	1

^{*} Antedated Jan. 27, 1848.

Language			
- HAVENTEONS OR DISCOSPINSES.	Parament.	antimines.	· TERM·MPRP.
Flough, construction and action			
of, &c	Henry Peachey	Washington, D. C	April 5, 1834
Plough, construction of	D. Prouty & J. Mears		June 16, 1841
Blough, corn	N.Echeridge, G.Heath,	•	-
	& J. G. Glynn	Liule Falls, N. Y	July 23, 1831
Plough, corn	Isaac Edwards	Paoli, Ind	Sept. 19, 1844
Plough, cotton	Harvey W. Pitts	Wilsonville, Ala	Mar. 31, 1830
Plough, coulter and shares	Samuel A. Sperry	Ann Arborville, M. T	
Plough, coupling, &c	J. Card & G. Newell.	Mentor, Ohio	Nov. 9, 183
Plough, cultivating	Marshal J. Hunt	Cincinnati, Ohio	Sept. 30, 1845
Plough, cultivator and planter com-		Belleville, Ill	Mar. 12, 1841
bined, for ploughing at one ope-	of Justus Rider	Woodburn, Ill	1.0, 1.0
ration.			
Plough, cutter and points for	D. H. Jones & W. F.		T 1 00 100
	Richardson	Palmyra, N. Y	July 29, 1894
Plough, ditching	Samuel Thrailkill	Lafayette, Ind	Sept. 10, 1846
Plough, double	John Cromwell	Roysterstown, Md	Oct. 23, 1814
Plough, double	R. Medley & P. & D.	C. A. L. D.	T 11 1000
TH	Altenderfer	Cootstown, Pa	June 11, 1828
Flough, double	Albert Peebles	Henry co., Ga	July 20, 1831
Plough, double shovel	John Balthorpe	Loudoun co., Va	Sept. 20, 1819
Ploughs, double	Peter Eichar	Wooster, Ohio	Dec. 5, 1842
Plough, double	Aaron Smith	Bloomfield, Mich	May 10, 1844
Plough, drawing machine for	Luke Johnson	Leominster, Mass	Aug. 6, 1816
Plough, draining	Stephen Hall Elisha Bean	Boston, Mass	July 13, 1810 Mar. 4, 1816
Plough, dressing corn	William Willis	Massachusetts	Mar. 4, 1816 May 7, 1832
Plough, drill, and cotton thinner	James Herbert	Edgefield, S. C	April 13, 1844
Plough, excavating ditches Ploughs, gang of	Thomas Wiard	Lagrange, Ind East Avon, N. Y	Nov. 24, 1843
Plough, gathering weeds under the		East Avon, 14. 1	1101. 24, 1040
furrow slice	Dudley Hills	East Hartford, Ct	Oct. 7, 1844
Plough, harrow	Seth Vinton	Wilmington, Ct	Nov. 18, 1807
Plough and harrow	Henry Higley		Dec. 11, 1832
Plough, hill side	John Rich, jr	Troy, N. Y	Feb. 10, 1925
Plough, hill side	Norman Staples	Penn's store, Va	Nov. 1, 1827
Plough, hill side	John P. Cobbs	Nelson, co., Va	Oct. 1, 1830
Plough, hill side	Cyrus H. McCormick		June 13, 1831
Plough, hill side	Isaac Teeter	Johnstown, Pa	Oct. 3, 1836
Plough, hill side	Joseph Trump	Connelsville, Pa	Sept. 9, 1845
Plough, hill side	James Rorabaugh	Luney's creek, Va	Dec. 3, 1846
Plough, hill side, double	Martin Rich	Ithaca, N. Y	May 24, 1838
Plough, hill side, hinged wing	William B. Donald	Fairfield, Va	June 29, 1833
Plough, hill side and horizontal	John W. Jordan	Lexington, Va	April 19, 1839
Plough, hill side, (improvement on	***************************************		,
Teeter's plough)	Daniel Gochnour, jr	Conemaugh, Pa	June 12, 1840
Plough, hill side, inverting, &c	John W. Jordan	Lexington, Va	Oct. 28, 1835
Plough, hill side, reversing	Calvin Delano	Livermore, Me	July 5, 1833
Plough, improvement, attached to			, , , , ,
the common Gopher	Thomas Carter	Saurin district, S. C.	Dec. 16, 1833
Plough, improvement on Wood's.	Solomon Austin	Sempronius, N. Y	
Plough, improvem't on Barnard's		Dagaborough, Del	
Plough, improvement in guiding	Ruggles, Nouse, and	3 ,	
	Mason, ass'ees of J.		
	M. C. Armsby	Worcester, Mass	April 18, 1846
Ploughs, improved mould board for		Galesburg, Ill	June 27, 1846
Ploughs, improvement in	John M. May	Philadelphia, Pa	May 2, 1846
Ploughs, improvement in	John M. May	Philadelphia, Pa	May 2, 1846
Plough, improvement in		Union Springs, N.Y.	May 30, 1846
· Plough, iron	John Boynton	South Coventry, Ct.	July 10, 1829
Plough, listing and preparing land	John Weaver	Washington, D. C	May 8, 1823
Plough, manufacturing of See C		• • • • • • • • • • • • • • • • • • • •	
Plough, mould board	Robert Smith	Pennaylvania	May 19, 1890
Plough, mould board, double	Stephen Gregory	Sawpits, N. Y	Nov. 14, 1838
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· INTERPORT OR DISCOVERMES.	PATHIPUNE.	rividenci-	Warn meurd.
Plough, mould board of	S. Witherow & David	D	0
Plough, mould board and sheath,	Pieree	Philadelphia, Pa	Oct. 5, 1891
&c., attaching by means of rivets	Benjamin F. Jewett	Springfield, Ill	Feb. 12, 1841
Plough, polyshare	Frederick Brewster	Burlington, Vt	Jan. 24, 1835
Plough, prairie, bogging, & ditch-	John Gordon	Consel N V	Ten 19 1999
Plough, prairie land	Cromwell K. Bartlett.	Copeck, N. Y Geneseo, Ill	Jan. 13, 1825 Mar. 28, 1849
Plough, revolving coulter for	Howard Delano	Mottsville, N. Y	April 1, 1842
Plough, ridge	Wm. Atwood & Dan'l	Commist N II	Dec 04 1994
Plough, right and left	Hamblet	Cornish, N. H Fredericktown, Md.	Dec. 24, 1833 Aug. 20, 1827
Plough, shares and cutters of, con-		110401104100 1111, 11241	
structing and fastening	Mahlon Smith	Tinicum, Pa	Jan. 28, 1846
Plough, self-sharpening Plough, self-sharpening	Waldren Beach	Philadelphia, Pa	Aug. 26, 1823 April 9, 1824
Plough, self-sharpening	C. & O. Evans	Philadelphia, Pa Philadelphia, Pa	April 14, 1824
Plough, self-sharpening	Bancroft Woodcock	Mount Pleasant, Pa.	Jan. 26, 1832
Plough, self-sharpening	Job B. Norton	Utica, N. Y	April 27, 1832
Plough, self-sharpening Plough, self-sharpening	Waldron Beach Richard B. Chenoweth		Dec. 28, 1832 Mar. 17, 1834
Plough, self-sharpening	John Ormiston	Centre, Ohio	Mar. 17, 1836
Plough, self-sharpening	John W. Post Isaac Snider	Baltimore, Md	Oct. 8, 1836
Plough, self-sharpening*	Isaac Smider	Mount Pleasant, Pa.	July 29, 1837
Plough, self-sharpening, horizont'l Ploughshare	Cyrus H. McCormick Bailey Carpenter	Somerstown, N. Y.	Nov. 19, 1833 July 1, 1822
Ploughshare, cast iron	James H. Concklin		Jan. 13, 1830
Ploughshare, coulter, and mould	337'II' . TT).	D #1 37 37	A 07 100F
Ploughshare, hardening edges	William Holt A. L. & E. A. Stephens		Aug. 27, 1835 April 23, 1821
Ploughshare, rolled	Joseph Potts		
Plough, shifting share	John Wood	Castleton, N. Y	Feb. 1, 1821
Plough, shovel cutter	Samuel Wilson		Feb. 6, 1830
Plough, shovel cutter	Robert Walker		Mar. 10, 1830 Oct. 17, 1842
Plough, shovel	Moses D. Wells		May 9, 1846
Plough, triangular	Thomas Borden	Newport, R. I	Jan. 13, 1830
Plough, twin	Noble G. Cryer John Sanford		Mar. 24, 1827 Aug. 20, 1811
Plough, wheel	J. C. Ferguson	Hydesville, Mass	June 22, 1836
Ploughs, wheelt	Thomas D. Burrall		Oct. 28, 1843
Plough, wheel	Israel Long	Bueyrus, Ohio	Mar. 9, 1844
Mough, wheel	T. B. Quigley and H. Hall.	Mansfield, Ohio	Oct. 7, 1845
Plough, wire grass & wheel cultiva'r	Nathan Ide	Shelby, N. Y	April 18, 1846
Plough, wrought iron	J. & H. F. Cromwell.	Cynthiana, Ky	Sept. 30, 1841
Potato diggers	Archibald C. Ketchum Allen Eldred	Schenectady, N. Y Oppenheim, N. Y	Feb. 20, 1844 July 24, 1846
Pruning shear		New Haven, Ct	July 13, 1809
Pulverizer, agricultural	Benjamin F. Stickney.	Vistula, Mich. Ter	Mar. 1, 1834
Rake, collecting apples		Berlin, Ct	Dec. 31, 1812 Dec. 20, 1843
Rakes, grain	Benoni F. Partridge	Barre Centre, N. Y. Onondaga, N. Y	Mar. 13, 1844
Rake, grain	David Harkness	Raisin, Mich	Mar. 22, 1846
nake, nay	Thomas C. Hance	Palmyra, N. Y	June 25, 1821
Rake, hay	Daniel Smith William Buckminster.	Vincennes, Ind Framingham, Mass.	June 7, 1838 July 12, 18 3 8
Rake, hay and grain	M. & S. Pennock	E. Marlborough, Pa	Feb. 17, 1827
Rake, hay, hand	Ambrose Foster	Auburn, N. Y	Dec. 19, 1827
Rake, hay, horse, revolvingt	Moses Pennock	E. Marlborough, Pa	June 26, 1825
Rake, hay, horse	Jeremiah Bailey Henry & Esra Hoopes		Mar. 30, 1827 July 26, 1824
Rake, hay and grain harrow Rake, hay and grain, rake teeth for	George Davis	Beimont, Unio	July 22, 1839

^{*}Additional improvement, May 11, 1841. † Ante dated, Aug. 25, 1843. ‡ Reissued Nov. 23, 1894, & Feb. 8, 25.

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INVENTIONS OR DISCOVERIES.	PATERTÈSE.	respective.	WHEN MOTED.
Rake, hay, revolving	E. B & M. D. Wells.	Morgantown, Va	Sept. 20, 1830
Rake, horse	Pierson Reading	Trenton, N. J	Aug. 1, 1810
Rake, horse	William Phillips	N. Brunswick, N. J.	Aug. 15, 1891
Rake, horse	Noah Briggs	New Hartford, N. Y	Feb. 11, 1835
Rake, horse	James Pudney	Stanford, N. Y	Nov. 7, 1895
Rake, horse	James W. Webb	Mount Morris, N.Y.	Feb. 5, 1830
Rake, horse	Erastus S. Root	Mount Morris, N.Y.	May 17, 1890
Rake, horse	David Dewey	Poultney, Vt	Nov. 23, 1837
Rakes, horse	James Maltby	North Branford, Ct.	Dec. 5, 1843
Rake, horse or grain	Seneca Ladd	Danville, Vt	Mar. 14, 1846
Rake, horse, (hay)	L. M. Whitman	Pike, N. Y	April 4, 1846
Rake, iron tooth	Nath'l C. Sanford and Erastus Parmelee	Meriden, Ct	June 8, 1830
Rake, planting See Seeding.			
Rake, revolving horse*		Bridgewater, Mass	Dec. 10, 1836
Rake, revolving		Shoreham, Vt	April 17, 1837
Rake, revolving ring tooth		Kortright, N. Y	Aug. 22, 1846
Rattoon and cane cutters			Sept. 17, 1844
Reaping machine	Jonathan Kead	New York	
Rifle, for sharpening scythes		Washington, N. Y.	
Rifle, for sharpening scythes		Woodbury, N. J	
Roller, toothed			Dec. 27, 1815
Sap bucket	Jeremian Furuy	Cherourne, IV. I	Oct. 4, 1817
Screen.—See Winnowing. Scythe.—See Cutting.			
Scythe sneed	George Farmher	Easton, Pa	Inly 19 1841
Seed clover cleaning	Daniel Hoats	Mifflinburg, Pa	July 20 1846
Seed clover, cleaning	William Buckminster	Framingham, Mass.	Oct. 8, 1838
Seeding, corn, covering	Thomas Williams	Pittsylvania, Va	Dec. 19, 1822
Seeding, corn, &c		,,,	200. 00, 200.
,,	Arnold	Haddam, Ct	Jan. 20, 1831
Seeding, corn, &c	Henry Todd	Pembroke, N. H	
Seeding, corn planter	Eliakim Spooner	Vermont	Jan. 25, 1799
Seeding, corn planter		Lycoming co., Pa	Mar. 18, 1809
Seeding, corn planter	M. & J. Nickols	Otsego, N. Y	Oct. 12, 1809
Seeding, corn planter	John Blocher	Lancaster, Pa	April 12, 1814
Seeding, corn planter	Andrew Cock	Flushing, N. Y	Mar. 20, 1821
Seeding, corn planter	Herman Russell	Litchfield, Me Union district, S. C.	Jan. 16, 1827
Seeding, corn planter	Bird Murphy	Union district, S. C.	Dec. 31, 1837
Seeding, corn planter			
~	and H. Pitner	Steubenville, Ohio	
Seeding, corn planter	H. Blair, (colored man)		Oct. 14, 1834
Seeding, corn planter	Thacker C. Bush	Clarke co., Ky	Dec. 17, 1834
Seeding, corn planter		Geneva, N. Y	
Seeding, corn planter		Washing'n City,D.C	
Seeding, corn planter and cotton		Westford, Mass	
Seeding, corn planter, and cotton. Seeding, corn planter, and cotton.		Warren co., Miss	
Seeding, corn planter, and cotton.			
Seeding, corn planter, & working.			June 24, 1826
Seeding, corn planters	Thomas H. Hoskins	Crawfordsville, Ia	
Seeding, cotton planter	Christopher Ford	Painesville, Va	
Seeding, cotton planter	Francis H. Smith	Richmond, Va	Feb. 15, 1894
Seeding, cotton planter	J. C. Goodman & W		1
	S. McDonald	Wilson co., Tenn	June 29, 1833
Seeding, cotton planter			Feb. 13, 1835
Seeding, cotton planter	Jordon Gatling	Murfreesboro', N. C.	June 20, 1835
Seeding, cotton planter			
	Michael Beam		Mar. 30, 1836
Seeding, cotton planter	Michael Deallinesses		
		Fayetteville, Tenn	June 16, 1836
Seeding, cotton planter	Henry Allen	Glenross, Md	Aug. 31, 1836
Seeding, cotton planter	Henry Allen	Glenross, Md	Aug. 31, 1836
Seeding, cotton planter	Henry Allen	Glenross, Md Guilford towns'p, Pa Richmond, N. Y	Aug. 31, 1836 Dec. 16, 1833 Aug. 22, 1826

^{*} Additional improvement, Oct. 15, 1888.

ENVENTIONS OR DISCOVERSION.	PATRIFFEID.	remotitos.	William Indian.
Beed, grain, &c., apparatus for drying.	Wm. W. Alcott	Boston, Mass	Sept. 26, 1846
Seeding, machine for sowing grain broadcast.	W. S. Jones & H. C. Smith	Fairfield, Ct	Feb. 20, 1844
Seeding, machine, for planting seeds	James Putnam	Hamilton, N. Y	Mar. 7, 1846
Seeding, planting corn	Niram R. & Orin G. Merchant	Guilford, N. Y	Oct. 12, 1831
Seeding, planting corn, &c Seeding, planting corn, &c		New Canaan, Ct Chelsea, Mass	Mar. 12, 1839 Aug. 25, 1846
Seeding, planting corn, &c Seeding, planting cotton seed	Ezra L. Miller	Brooklyn, N. Y	April 10, 1841
Seeding, planting machines	Moses Atwood, jr	Hampstead, N. H Princess Annc.h., Va	June 24, 183
Seeding, planting machines	Martin Nichols	Clearfield, Pa	Oct. 16, 184
Seeding, planting machines, &c Seeding, planting machines	Dierek Breur	Newton, N. J Petersburg, Tenn	
Seeding, planting plough Seeding, planting plough		New Lisbon, N. Y	July 18, 1867
Seeding, potatoes, planting Seeding, potatoes, planting	George Harper	Jenkenstown, Pa	Mar. 23, 1818
Seeding, potatoes, planting & dig-	Phineas Meigs & M. C.		!
Seed planters	Gottlieb Mottmiller	Columbus, Ohio	Sept. 1, 184
Seed plantersSeed in planter		Orford, N. Y Marlborough, Vt	Jan. 20, 184
Seeding, seed-planterst	Lorenzo Bachelder Samuel L. Bachelder.	Hampstead, N. H.) Haverhill, Mass }	April 30, 184
Seeding, seed-planters	T. J. Lewis & George F. Lewis	Boston, Mass	June 27, 184
Seeding, seed-planters	T. J. Lewis & George F. Lewis	Boston, Mass	June 27, 184
Sceding, seed-planters; Seeding, seed-planters	Jeseph Gibbons	Adrian, Mich	Aug. 25, 184
Seeding, seed-planting machine	Pennock	E. Marlborough, Pa. Baltimore, Md	Mar. 12, 184 May 25, 184
Seeding, seed-planters Seeding, seed-planters	Wells Kilburn	Lawrenceville, Pa	June 11, 184
Seeding, seed-planters	Richard J. Gatling	Murfreesboro', N.C.	
Seeding, seed-planters	F. Haines		Dec. 31, 184
Seeding, seed, sowing Seeding, seed, sowing			Aug. 28, 182 Sept. 21, 182
Seeding, seed, sowing, drill for Seeding, sowing and planting ruta			April 21, 183
baga Seeding, sowing cotton seed	Hiram R. Merchant	Guilford, N. Y	Jan. 20, 183 July 18, 184
Seeding, sowing grain, plaster, &	Samuel Hoffer	Londonderry, Pa	July 17, 183 July 27, 183
Seeding, sowing seed	Ezra Fisk	Fayette, Me	Nov. 8, 184
Seeding, tilling, and planting, at the same operation, called the		New York, N. Y.	April 10, 184
cylindrical tiller and planter. Sowing machine	Pierpont Seymour Thomas Pierce	E. Bloomfield, N. Y.	May 7, 18
Smut machine	Thomas Pierce Thomas Pierce	Fishkill, N. Y Fishkill, N. Y	. Feb. 21, 186 May 24, 186
Smut machine	Daniel Tomlinson	Brookfield, Ct	. May 20, 18
Smut machine	James Gillaspie	Middletown, Md	. Aug. 23, 189
Smut machine	. Samuel Pease, jr	. Winfield, N. Y	. Feb. 27, 18
Smut machine	. L. V. & C. Masten	. Penn Yan, N. Y	. April 25, 18
Smut machine	. Townshend Carpente	r Elmyra. N. Y	. Dec. 24, 18

^{*} Additional imp?t, July 18, 1849. † Additional imp?t, April 1, 1849. † Additional imp?t, May 4, 1841.

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sipremitation or dispersion.	PATEMOGRA:	Manageren.	MATHERANID.
Smat machine	Jesse Neale, ass'ee of		
0	Phineas Pettis	Middleburg, Ohio	
Smut machine	Jeremiah Case	Sodus, N. Y	Oct. 1, 183 0 ; April 12, 1831
Smut machine	Levi Hayward H. Weed & Step. Fel-	Phelps, N. Y	April 12, 1001
Milet macinine	lows	Sandwich, N. H	Aug. 23, 1831
Smut machine	Stephen Fellows	Sandwich, N. H	May 24, 1832
mut machine	Nathaniel Winslow	Poughkeepsie, N. Y.	Oct. 25, 1832
Smut machine	Bartholomew Smith	Bethlehem, N. Y	Jan. 9, 1834
Smut machine	T. J. Sands & Benja-		
	min Kendig	Washingt'nt'ns'p,Pa	
Smut machine	John Card	Gainesville, N. Y	June 20, 1835
Smut machine	John Turk	Columbus, Pa	Nov. 7, 1835
Smut machine	Edward P. Fitzpatrick Abraham Mudge		Nov. 14, 1835 Feb. 25, 1836
Smut machine	M. B. Spafford	Canajoharie, N. Y Gainesville, N. Y	Mar. 8, 1836
Smut machine	W. B. Ryan	Mount Morris, N.Y.	April 28, 1836
Smut machine	Robert Engle	Burlington co., N. J.	June 2, 1836
Smut machine	J. T. Town	Mount Morris, N.Y.	June 16, 1836
Smut machine	Rufus Dennison	Wilton, Maine	July 2, 1836
Smut machine	Jonas Pratt	Otsego, N. Y	July 2, 1836
Smut machine	Charles D. Childs	Mount Morris, N.Y.	Aug. 15, 1837
mut machine*	Benjamin M. Smith	Rochester, N. Y	Sept. 8, 1837
Smut machine	John Parker	Sunbury, Ohio	Aug. 23, 1839
Smut machine	William C. Grimes	York, Pa	Mar. 25, 1839
Smut machine	John B. Yates Leonard Smith	Sperryville, Va	Oct. 12, 1839 Oct. 18, 1839
Smut machine	Luther B. Walker	Plattsburg, N. Y Orangeburg, N. Y	Oct. 18, 1839
Smut machine	Samuel W. Foster	Scio, Mich	Dec. 21, 1839
Smut machine	Jacob Russell	Jenner, Pa	April 24, 1840
	Hiram Smith	New York	July 31, 1840
Smut machine	Amos Adams	Port Henry, N. Y	Aug. 3, 1840
Smut machine		Millpart, N. Y	Aug. 22, 1846
mut machine	William B. Palmer	Rochester, N. Y	April 19, 1841
Smut machine		Mount Holly, N. J.	April 24, 1841
Smut machine	J. Demuth & B. Bow-	Lancaster. Pa	May 11, 1841
Smut machine	man, & Levi Beck Charles D. Childs	Lampeter, Pa S York, N. Y	July 8, 1841
Smut machine	Henry A. Buck	Fredonia, N. Y	July 10, 1841
Smut machine	T. R. Bailey & Ezra	Weybridge, Vt)	
	Rich	Shoreham, Vt	July 16, 1841
Smut machine	Lewis Greene	Tiffin, Seneca, Ohio.	Oct. 9, 1841
mut machine	David Baldwin	Whitehall, N. Y	Dec. 14, 1841
mut machine	George D. Waldo	Lockport, N. Y	Jan. 17, 1842
mut machine	John Wilson	Gentsville, S. C	June 22, 1842
Monut machine	Joseph Heygel	Salisbury, Pa	Jan. 16, 1843
mut machine	Ralph Summers William Dumout	Seneca Falls, N. Y.	Jan. 27, 1843
mut machine	Frederick L. Lee	Seneca Falls, N. Y.	Feb. 24, 1843 Mar. 10, 1843
mut machine	Orrin Lull	Washington, N. Y McConnellsville, O	April 6, 1843
mut machine	Henry Helm	Wheeling, Va	May 8, 1843
Smut machine	Wm. Engle & M. G.		1.229 0, 1010
	Kinney	Conyngham, Pa	May 19, 1843
Amut machine	Henry A. Buck	Fredonia, N. Y	May 26, 1843
Smut machine		Lexington dist., S. C.	June 3, 1843
mut machine	George Freymoyer	Chichester, Pa	June 24, 1843
mut machine	Thomas Brown	Rome, N. Y	Aug. 4, 1843
mut machine	Edward Howard	Fredonia, N. Y	Oct. 12, 1843
Smut machine	John Coleman Meredith Mallory	Mount Marie N. 37	Nov. 15, 1843
	MACIEUIUI MAUIORY	Mount Morris, N.Y.	Jan. 20, 1844
Smut machine	Incoh W Rrower	Mount Aires N. C.	PAP AM IMA
Smut machine	Jacob W. Brower	Mount Airy, N. C.	Feb. 28, 1844 Mar 90 1844
Smut machine	James M. Clarke	Strasburg, Pa.	Mar. 20, 1844

Aniedated Aug. 1, 1937.

CLEANING OR DESCRIPTION	PATRIMUMO-	PARAMETERS -	WARE CHANGE.
Smut machine	Henry B. James	Mount Holly, N. J.	May 17, 1840
Smut mechine.	Abraham Straub	Milton, Pa	May 17, 1844
Smat machine	Elisha W. Young and	Parkham, Ohio)	
	Thomas H. Nelson	Harrisburg, Pa	June 5, 1844
Smut machine	James W. Webster	Luray, Va	June 5, 1844.
Smut machine	John Pagin	Michigan City, Ia	Aug. 14, 1844
Smut machine	Jacob Groat	Troy, N. Y	Nov. 9, 1844
Smut machine*	Joseph Johnson	Wilmington, Del	Nov. 8, 1845:
Smut machine, cleaning grain	George Mann, jr	Lockport, N. Y	June 29, 1839.
Smut machine, cleaning grain	Thomas McCrea	Ann Arundel, Va	Aug. 9, 1839
Smut machine, cleaning grain	Samuel Spangler	Stony Creek, Pa	May 19, 1840
Smut machine, cleaning grain, &c.		,	
by machinery	Edward Bradfield	Rochester, N. Y	Sept. 19, 1840
Smut machine, cleaning grain, &c.		Boonsboro', Md	July 23, 1841
Smut machine, cleaning grain	Jonas Nolt	West Hempfield, Pa	Aug. 11, 1841
Smut machine, cleaning grain, &c.	John D. Beers	Philadelphia, Pa	Dec. 10, 1841
Smut machine, cleaning and sepa-		• 1	,
rating garlic, &c., from grain	Joseph Heygel	Salisbury, Pa	Sept. 25, 1841
Smut machine, cleaning and win-	. ,,	,,	• 1
nowing grain	Zalmon Rice	Lyons, N. Y	April 24, 1841
Smut machine, cleaning grain, &c.		Westfield, N. Y	Jan. 17, 1842
Smut machine, cleaning grain, &c.		,	
, , , , , , , , , , , , , , , , , , , ,	D. Weld	Trenton, N. J	Mar. 28, 1842
Smut machine, cleaning grain, &c.			
, , , , , , , , , , , , , , , , , , , ,	tian Krim	Hanover, Pa	May 28, 1842
Smut machine, separating garlic			,
from wheat	Samuel Fahrney	Boonsborough, Md.	Oct. 26, 1842
Smut and garlic machines	William Dulancy	Cornwall, N. Y	Oct. 6, 1843
Smut machine, and garlic	Abraham Hurst	Allen township, Pa.	Jan. 23, 1835
Smut machine, and garlic	Henry Straub	Shepherdstown, Va.	Nov. 11, 1837
Smut machine, grain, &c	B. Wing & O. Root	Verona, Ama'm, N.Y	Mar. 12, 1894
Smut machine, or hulling	Stephens Cook	Marcellus, N. Y	Aug. 7, 1831
Smut machine, and hulling		Elmira, N. Y	Feb. 5, 1836
Smut machine, rubbing garlic from			
wheat.	& Jos. Miller	Ellicott's Mills, Md.	Nov. 3, 1838
Smut machine, and cleaning rice!.			Aug. 23, 1838
Smut machine, scouring	Frederick Woodward.	Butternuts, N. Y	Oct. 10, 1821
Smut machine, wheat	Ephraim Tisdale	Warren co., N. Y	July 31, 1819
Smut machine, cleaning wheat	Elisha W. & Wm. B.	,	
	Young	Parkman, Ohio	July 2, 1839
Smut, wheat rubber	James Deneale	Dumfries, Va	July 1, 1809
Smut, wheat rubber	John D. Richards	Middleburg, Va	Feb. 27, 1812
Smut, wheat rubber	David Narracong	Skaneateles, N. Y	Aug. 18, 1831
Smut, wheat rubber	Samuel, Nath'l H., &	-	
	Wm. Ellicott	Ellicott's Mills, Md.	July 31, 1833
Strainers for milk pails	Isaiah Bunnel	Derby, Ct	Aug. 18, 1837
Straw cutter	M. Coates & E. Evans	Philadelphia, Pa	April 30, 1894
Straw cutter	John Heaven	Montgomery co., Va	April 17, 1906
Straw cutter	Josiah Cleaveland	Franklin co., Pa	July 18, 1807
Straw cutter	Benjamin Conner	Portsmouth, N.H	July 20, 1807
Straw cutter	Elihu Hotchkiss	Brattleboro', Vt	Aug. 2, 1808
Straw cutter	Roger Haskill	Burlington, N. Y	May 25, 1899
Straw cutter	Richard Canfield	Morristown, N. J	June 25, 1809
Straw cutter	Elihu Hotchkiss	Brattleboro', Vt	Jan. 18, 1817
Straw cutter	Samuel Whitlock	Vermont	Mar. 3, 1817
Straw cutter	W. Ayres & H. Gay.	Windsor, Vt	Aug. 13, 1817
Straw cutter	A. Brayten and H. C.		
	Green	Cheshire, Mass	Dec. 5, 1817
Straw cutter	Alpheus Bigelow	Weston, Mass	Feb. 13, 1818
Straw cutter	Stephen A. Sherwood.	Poughkeepsie, N. Y.	April 11, 1818
Straw cutter	Giles Dayton	Springfield, Mass	Mar. 18, 1819
Straw cutter	Lemuel Greene	Greene.co., Ga	Dec. 21, 1819
Straw cutter	Jona'n S. Eastman	Baltimore, Md	Jan. 29, 1822;
Straw cutter	William Willis		
	,		

^{*} Antedated Sept. 9, 1845.

- 20171	ENTERCOPE OR	Desc overburg.	PAT ENTYBOS.	remperse.	while swift.
	cutter		John Oreborn	Blanford, Mass	Dec. 6, 189
			John J. Steel	Richmond co., N. C.	May 24, 168
			Titus Preston	Wallingford, Ct	Oct. 1, 160
Straw	cutter	• • • • • • • • • • • • • • • • • • • •	Samuel Wilson	Darlington c. h., S.C.	Nov. 11, 160
Straw	cutter	· • • • • • • • • • • • • • • • • • • •	Benjamin R. Greene	Warwick, R. I	Aug. 8, 189
Straw	cutter	• • • • • • • • • • • • • • • • • • • •	Joshua Davis	Marysville, Va	Aug. 19, 196
			Jonathan Howlet	Greensboro', N. C	Sept. 7, 186
		• • • • • • • • • • • • • • • • • • • •	Isaac Lewis	Knoxville, Tenn	Sept. 12, 193
		• • • • • • • • • • • • • • • • • • • •	William Mitchell	Abbeville dist'ct,S.C.	Nov. 19, 188
		• • • • • • • • • • • • • • •	John Shaw	Philadelphia, Pa	Nov. 19, 183
		• • • • • • • • • • • • • •	James Secor	Bristol, Pa	Dec. 16, 183
		• • • • • • • • • • • •	John M. Tilford	Rutherford co., N.C.	Dec. 31, 183
		• • • • • • • • • • • • • • • • • • • •	Nimrod Murphree	Nashville, Tenn	Sept. 17, 183
		• • • • • • • • • • • • • • •	Stephen Ustick	Philadelphia, Pa	Oct. 3, 183
			Joshua Moore		Dec. 23, 183
		·· • • • • • • • • • • • • • • • • • •	Nimrod Murphree	Nashville, Tenn	Jan. 21, 183
		· · · · · · · · · · · · · · · · · · ·	Stephen Ustick	Philadelphia, Pa	Feb. 5, 183
		·······	John Deakyne	Petersburg, Va	April 2, 183
		• • • • • • • • • • • • • • • • • • • •	John W. Cope	Franklin co., Tenn	April 22, 183
		· • • • • • • • • • • • • • • • • • • •	Stephen Ustick	Philadelphia, Pa	May 29, 183
		••••••	James McMath	Crawford, Pa	June 26, 183
		• • • • • • • • • • • • • • • • • • • •	Ernst G. Augustin	New York	July 6, 183
		• • • • • • • • • • • • • • • • • • • •	Isaac S. Wright	Elbridge, N. Y	Feb. 3, 183
Straw	cutter	• • • • • • • • • • • • • • • • • • • •	C. D. Skinner and D.	77 11 0.	T. 10 100
α.			Read	Haddam, Ct	Feb. 10, 183
		• • • • • • • • • • • • • • • • • • • •	Joseph Everett	Geneva, N. Y	
		• • • • • • • • • • • • • • • • • • • •	James M. Wolfolk	Oldham county, Ky.	
		• • • • • • • • • • • • • • • • • • • •	James Hyde	Darien, N. Y	reo. 23, 183
ouraw	cutter	• • • • • • • • • • • • •	E. Tarbox and C. F.	Onder N V	T 00 109
C+			Kneeland	Ogden, N. Y	
		••••••	Jonathan S. Eastman.	Baltimore, Md	
		••••••••	William J. Duvall	Baltimore, Md	Mar. 28, 183
_		•••••	Ashman Hall	Kent, N. Y	
		••••••	Henry Silliman	Perry village, N. Y. Ellington, Ct	Jan. 9, 183
			Edwin Gillett	Butternuts, N. Y	June 4, 183
			Ebenezer Dewey		June 27, 183
		·• • • • • • • • • • • • • • • • • • •	John Boynton	South Coventry, Ct.	Nov. 25, 183
		[William Willis	South Carolina	Aug. 24, 182
				~	July 1, 183
		bage, paper, &c .		Salem t'nship, Ohio.	Nov. 7, 183
		d corn sheller	William Denson	Morgan county, Ala.	
		d fodder	William A. Hamilton		Nov. 19, 183
		d fodder			Nov. 19, 183
		d fodder	Ethel H. Porter	Lincolnton, S. C	Mar. 14, 183
		7, &c		New York	Mar. 9, 183
		7, &c			Mar. 12, 183
Straw.	cutting hav	7, &c	Barnabas Devee		
Straw.	cutting hay	y, &c. *	James Luckey	New York	Dec. 16, 183
		, &c., horizontal	Paul Moody	Philadelphia, Pa	July 8, 183
Straw	cutter, hori	zontal	Robert A. B. Beach.	Williamson co Tenn	April 24, 183
Straw,	cutting hay	7, stalks, &c	Jacob Harland	Tomkinsville, Ky	April 19, 183
Straw,	cutting mad	chine	Major McDonald !	Topsham, Mass	June 10, 182
Straw,	cutting mad	chine	Noah Safford	Springfield, Vt	Aug. 25, 182
		chine	B. A. Hall and Chaun.		_
			Hall	Middletown, Ct	Nov. 7, 182
Straw,	cutting mad	chi ne .	Thomas Benbow	Guilford co., N. C	Feb. 6, 182
		chine	Laban Durham and J.		
•	-		S. Pleasants	Halifax county, Va.	July 27, 182
Straw,	cutting ma	chine		Livingsten co., N.Y.	Feb. 11, 182
		chine, and corn		•	·
				Armenia, N. Y	Mar 15 180
					mai. 10, 10s
Straw,	cutting mac	kine, and thrash-			

^{*} Improvements on Patent, March 9, 1833.

	* 	· · · · · · · · · · · · · · · · · · ·	
SHORDHESIUS ON DESCONDAING.	Parmeras.	anderes.	WHEN SHOPED.
Straw cutter*	Charles T. Botts	Richmond, Va	Mar. 15, 1869
Straw cutter	Thomas Hopper	N. Brunswick, N. J.	Mar. 15, 1830
Straw cutter	Willis Grantham	Marshall's Ferry, Te.	June 18, 1839
Straw cutter	William A. Staples	Lynchburg, Va	Nov. 16, 1839
Straw cutter	Joseph Worley	Hawkins co., Tenn.	June 20, 1840
Straw cutter	John B. King	Athens, Tenn	May 15, 1841
Straw cutters	Joseph W. Webb	Mount Morris, N. J.	July 2, 1842
Straw cutters	Edmund Warren Cornelius Merry	New York Ithaca, N. Y	Oct. 7, 1843 Jan. 27, 1843
Straw cutter	Charles T. Botts	Richmond, Va	March 4, 1843
Straw cutter	John M. Thatcher	Milton, Pa	March 4, 1843
Straw cutter	Israel J. Richardson	New York, N. Y	April 10, 1843
Straw cutter	John C. Concklin	Peekskill, N. Y	May 2, 1843
Straw cutter	John K. Landis	East Hempfield, Pa.	Aug. 26, 1843
Straw cutter	James P. Ross	Lewisburg, Pa	Sept. 1, 1843
Straw cutter †	James Sanford Charles S. Gaylord	Redding, Ct	Oct. 12, 1843 Nov. 6, 1843
Straw cuter	A. A. Hall	Croton, N. Y	Dec. 4, 1843
Straw cutter	William Hovey	Worcester, Mass	Feb. 12, 1844
Straw cutter	Hiram M. Smith	Richmond, Va	Feb. 20, 1844
Straw cutter	Eliakim Taylor	Rochester, N. Y	Oct. 12, 1844
Straw cutter	Ezra Taylor	Monroe, N. Y	Nov. 6, 1844
Straw cutter	Daniel M. Sechler	Wooster, Ohio	Feb. 20, 1845
Straw cutter	Grey Utley	Chapel Hill, N. C.	Sept. 27, 1845 Feb. 10, 1846
Straw cutter	Samuel G. Blackman. J. W. Webb	Norwalk, Ct Lockport, N. Y	Feb. 10, 1846
Straw cutter	Joseph C. Rich	Penfield, N. Y	Jan. 7, 1846
Straw cutter	Israel J. Richardson	New York, N. Y	Feb. 10, 1846
Straw cutter	G. Catchpole	Geneva, N. Y	Sept. 5, 1846
Straw cutter	Isaac Mayfield	Elkton, Ky	Sept. 19, 1846
Straw cutter	James T. Wade	Augusta, Ga	Oct. 3, 1846
Straw cutter, feeding and pressing	W. J. Rylander	Columbus, Ga	Oct. 3, 1846
the straw	Israel W. Groff	Lampeter, Pa	April 30, 1840
Stump extractor	J. R. Remington	Lowndes co., Ala	Sept. 3, 1846
Thrashing and breaking flax and	8		•
hemp	Gideon Reynolds		July 20, 1824
Thrashing and breaking flax, &c.	J. A. Heermance	Red Hook, N. Y	Jan. 16, 1896
Thrashing and breaking flax, &c.	D. Hurlbut, N. Ethe-		Fab 01 100e
Thurships and bushing for	ridge, & J. A. Combs	Herkimer, N. Y Worthington, Ohio.	Feb. 21, 1826 Aug. 20, 1827
Thrashing and breaking flax Thrashing and cleaning clover seed	Peter Barker William Morgridge	Chesterville, Maine.	Feb. 12, 1834
Thrashing and cleaning clover seed		Wilkesbarre, Pa	Mar. 10, 1834
Thrashing and cleaning clover seed		South Middleto'n, Pa.	June 2, 1836
Thrashing and cleaning from smut	Henry Spencer	Maryland, N. Y	Nov. 7, 1831
Thrashing and cleaning grain	Simon Willard, jr	Hudson, N. Y	Nov. 30, 1807
Thrashing and cleaning grain	Joseph Coppinger	Baltimere, Md	Oct. 31, 1869
Thrashing and cleaning grain Thrashing and cleaning grain	Abel Dinsmoore N. Mills and J. Rogers		July 29, 1815 Jan. 14, 1823
Thrashing and cleaning grain		4 ' 50 57	
Thrashing and cleaning grain	Alexander Porter		
Thrashing and cleaning machine.		Bucks county, Pa S. Pembroke, N. Y.	Jan. 25, 1810
Thrashing and cleaning machine.	James Hyde	S. Pembroke, N. Y.	Feb. 8, 1825
Thrashing and cleaning machine.	Archibald Douglass	Marcellus, N. Y	
Threshing and cleaning rice			
Thrashing and cleaning wheat Thrashing and cleaning wheat	Ezra Miller		July 19, 1802 Mar. 30, 1821
Thrashing and cleaning wheat, &c.		Hallowell, Maine	April 6, 1831
Thrashing and cleaning wheat, and			
bolung		New Glasgow, Va	Oct. 22, 1831
Thrashing clover seed	William Loomis	Ashford, Čt	July 2, 1836
Thrashing clover seed		Reading, Ohio	June 20, 1838
Throshing clover seed			
Thrashing and clover seed machine	DUMON AN ORT	Lariora county, Ma.	march 1, 1033

^{*} Additional improvements, Oct. 15th, 1839. Oct. 19th, 1869. † Antedated June 1, 1843.

DESCRIPTION OR DISCONSESSES.	PATHOREMA	redirecto.	WEIN HAND.
Threshing doctorn shelling machine	David Konner	E. Nantmeal. town-	G OF 100
Threshing and cutting	Daniel Youngs	ship, Pa Piermont, N. H	Sept. 25, 1834 April 17, 1819
Thrashing cylinder, and concave.	William E. Osborne	Brighton, N. Y	April 30, 1831
Thrashing cylinder, and concave.	James Hart and Wal-		
TTL1: 1 1 1	ter.Holladay	Spottsylvania co., Va.	
Thrashing and dressing flax Thrashing, fanning, and cleaning	Stephen J. Gold	Cornwall, Ct	Jan. 11, 1834
grain	Ezra Miller and John Andrews	Weatmoreland, N.Y.	Aug. 15, 1810
Thrashing and fanning machine	Elihu Hotchkiss	Brattleborough, Vt	Aug. 8, 1816
Thrashing and flax breaker	David W. Webster	Amesbury, Mass	Feb. 9, 1828
Thrashing & flax dressing machine Thrashing grain.	Samuel Condon John Brown	New Hartford, Ct	March 3, 1809 Oct. 21, 1834
Thrashing grain.	John and D. Fitzgerald	Jackson, Tenn New York	Oct. ·30, 1834
I hrashing grain.	John Blue		Mar. 14, 1846
Thrashing grain	Stacy West		Nov. 11, 1834
Thrashing grain	John Gearheart L. Yale, S. W. Stim-	Rush township, Pa.	Aug. 27, 1835
	son, and N. Stimson	Little Falls, N. Y	May 17, 1838
Thrashing grain	Amoni West		July 26, 1839
Thrashing grain, and breaking flax	A. and N. Reminton	Genoa, N. Y	May 19, 1825
Thrashing machine,—See Class 9,	Breaking Stone.	Non Vorle	Eab 10 1909
Thrashing grain, and cleaning flax Thrashing grain, hulling, &c	John Carll	New York	Feb. 12, 1823 Mar. 21, 1838
Thrashing grain, and hulling clover	Joseph Darah and Ja-		
seed	cob Kinsey	comb Manor, Pa	Nov. 6, 1839
Thrashing grain, and hulling clover	Lamman Caalam	Dhiladalahia Da	Now 11 1020
meed	Lenmon Cooley Pierson Reading	Philadelphia, Pa Trenton, N. J	Nov. 11, 18 39 May 20, 1825
Thrashing grain, and shelling corn	Benjamin D. Beecher.	Woodbury, Conn	Oct. 20, 1839
Thrashing grain, and shelling corn		New York	Nov. 1, 1830
Thrashing grain, and shelling corn	Myron J. Gilbert	Troy, N. Y	Jan. 20, 1838
Thrashing and grinding grain Thrashing and bulling clover seed	William S. Lewis Joseph Potter	Pittsylvania, Va Reading, Pa	Oct. 20, 1823 Feb. 18, 1826
Thrashing and hulling clover seed	Chester Clarke	Colebrookdale, Pa	Jan. 28, 1830
Thrashing and hulling clover seed	James Parsons, jr	Rush, Pa	June 29, 1833
Thrashing and hulling clover seed	Jonathan Brooks	Brownsburg, Va	Dec. 15, 1837
Thrashing and hulling clover seed, and grinding corn.	Oliver Dean, jr., and Joseph Woodhull	Caledonia, N. Y	April 25, 1831
Thrashing and hulling grass seed.	Samuel Gould	New Portland, Me	Aug. 15, 1835
Thrashing, hulling, and shelling	Jesse S. Dick	Genesee co., N. Y.	Mar. 13, 1835
Thrashing machine	Samuel Mulliken	Philadelphia, Pa	Mar. 11, 1791
Thrashing machine Thrashing machine	William Thompson William Hodgson	Richmond, Va Virginia	Aug. 2, 1791 April 28, 1794
Thrashing machine	James Wardrop	Amthill, Va	Nov. 5, 1794
Thrashing machine	William Booker	Virginia	Mar. 11, 1797
Thrashing machine	Richard R. Elliott	Massachusetts	Nov. 16, 1797
Thrashing machine Thrashing machine	Thomas C. Martin Christopher Hoxie	New York	June 2, 1798 Aug. 20, 1801
Thrashing machine		Massachusetts	
Thrashing machine	Jedediah P. Turner	Delaware	
Thrashing machine	Thomas Barnett	Philadelphia, Pa	Feb. 21, 1804
Thrashing machine	James Deneale Benjamin B. Bernard.	Dumfries, Va	Nov. 20, 1804 Nov. 30, 1807
Thrashing machine	Randal Wallis	Baltimore, Md	Nov. 9, 1808
Thrashing machine	Robert Patten	Columbia, Pa	Feb. 17, 1809
Thrashing machine	Joseph Comfort	Bucks county, Pa	Jan. 25, 1810
Thrashing machine	Joseph Beach	Northfield, Mass Brookfield, N. Y	Mar. 30, 1810 Mar. 30, 1819
I hrashing machine	AUTAGER & CHIMINES	Journal 14. I	
Thrashing machine	Daniel C. Arnold	. 	Dec. 15, 1810
Thrashing machine	Daniel C. Arnold James W. Walker	Wilmington, N. C.	Feb. 9, 1811
Thrashing machine	Daniel C. Arnold James W. Walker R. C. Van Houten	Wilmington, N. C New York.	Feb. 9, 1811 Mar. 28, 1811

. WARRENDERS OR DESCRIPTIONS.	P4200000000	squient.	water trains.
Thurshing machine	Joseph Goulding	Bangor, Mass	Mar. 19, 1898
Thracking machine	J. Judson and J. Hotch-		
į.	kiss	Woodbury, Conn	Nov. 27, 1812
Thrashing machine	Samuel Skiff	Sharon, Conn	Dec. 5, 1812
Thrashing machine	John Houpt	Bucks county, Pa	Dec. 14, 1812
Thrashing machine	Thomas Warner	Genesee, N. Y	May 11, 1815
Threshing machine	Nathan Read	Boston, Mass	Feb. 22, 1817
a meeting meeting (1)	William Elliot	Washington, D. C.	April 12, 1817
Thrashing machine	Silas Smith	Albany, N. Y	Aug. 23, 1817
Thrashing machine	Nathan Read	Belfast, Maine	Dec. 23, 1817
Thrashing machine	John Hereey	Matthews co., Va	Feb. 9, 1816
Thrashing machine	Nathan Read	Belfast, Maine	Feb. 18, 1816
Thrashing machine	Thomas Beatty and	TIT 1 Control D C	P-1 05 1010
Thrashing machine	Muchael Shanks	Washington, D. C.	Feb. 25, 1818
Threahing machine	James Jones, jr James and Jos. Gregg	New Haven, Coma Londonderry, N. H.	Feb. 25, 1818 May 28, 1818
Thrashing machine	C. Bullard, J. Gray,		,, 2010
	and Ira Draper	Norfolk co., Mass	Dec. 16, 1818
Thrashing machine	Thomas Mayfield	Baltimore, Md	Dec. 28, 1818
Thrashing machine	William H. Ransome.	Matthews co., Va	Sept. 8, 1819
Thrashing machine	Ezra Goodeli	Phelps, N. Y	June 6, 1820
Threshing machine	Asa Shattuck	Pepperbill, Mass	Aug. 23, 1830
Thrashing machine	Benjamin Cummings. Alvin Savage	Brooklyn, N. H	Sept. 1, 1821 Mar. 28, 1822
Thrashing machine	B. and J. Tyler and J.	Wheatland, N. Y	1001. 20, 1025
	B. Andrews	Windsor, Vt	April 23, 1822
Thrashing machine	R. Gillman	New York	April 29, 1832
Thrashing machine	Major McDonald	Topsham, Maine	July 9, 1832
Thrashing machine	Joseph Pope	Hallowell, Maine	July 30, 1822
Thrashing machine	Timothy Howe	Turner, Maine	Dec. 3, 1822
Thrashing machine	Gideon Reynolds Pierson Reading	New York Trenton, N. J	Jan. 21, 1823 April 15, 1823
Thrashing machine	Joseph R. Miller	Dryden, New York.	April 26, 1823
Thrashing machine	William Kirk	Baltimore, Md	July 22, 1823
Thrashing machine	Charles Smith	New York	Sept. 6, 1823
Thrashing machine	Archibald Douglass	Marcellus, N. Y	Sept. 18, 1823
Thrashing machine	Andrew Noble	Alfred, Maine	Jan. 12, 1894
Thrashing machine Thrashing machine	Richard Holden	Philadelphia, Pa	May 20, 1855
Thrashing machine	William Hoyt William Small	Brookville, Ind Augusta, Maine	Sept. 9, 1825 Sept. 9, 1825
Thrashing machine	William Small	Augusta, Maine	Jan. 10, 1926
Thrashing machine	John Shaw	Kennebec, Maine	May 10, 1826
'I'hrashing machine	Seth Ballou	Livermore, Maine	May 25, 1826
Thrashing machine	Pierson Reading	Trenton, N. J	June 3, 1826
Thrashing machine	James Hyde	Pembroke, N. Y	Dec. 9, 1826
Thrashing machine	Eb. B. Pike	Litchfield, Maine	Oct. 5, 1827
Thrashing machine	Elias B. Hort	Charleston, S. C Uniontown, Md	Feb. 18, 1898 March 3, 1898
Thrashing machine	William Loomis	Springfield, N. Y	March 6, 1828
I'hrashing machine	John H. Bennett	Aurelius, N. Y	April 10, 1838
'I'brashing machine	Calvin Emmons	New York	April 17, 1898
Tarashing machine	Norton Case	North Granville, O	May 23, 1836
Thrashing machine	Samson Feiton	Killbuck, Ohio	July 22, 1826
Thrashing machine	Matthew Barney	Nantucket, Mass	Aug. 5, 1828
Thrashing machine*	Samuel S. Allen James S. Wood	Skancateles, N. Y Boutetourt co., Va	Nov. 1, 1828 Jan. 9, 1829
Thrashing machine	George Fuller	Gardiner, Maine	Jan. 9, 1829 June 11, 1829
Thrashing machine	Calvin Emmons	New York	July 27, 1829
Thrashing machine	Enoch Harmon	Upper Wakefield, Pa.	Aug. 5, 1829
Thrashing machine	James S. Wood	Pattensburg, Va	Sept. 10, 1829
Thrashing machine	Thomas G. Owen		Nov. 26, 1829
Threshing machine	William Barnes	Brookhaven, N. Y.	Dec. 14, 1829
Thrashing machine	John Haws	riueson, IV. I	Dec. 91, 102

^{*} Roissued May 13, 1839.

marallege of Discoarings.	PATHOTRES.	REMDERCE.	WHEN 1000ED.	
Thrashing machine	Jas. Clark and I. Starks	Genoa, N. Y	Jan. 99, 1890	
Thrashing machine	Henry C. Atwood	Woodbury, Conn	Jan. 23, 1830	
Thrashing machine	Edmund Warren	New York	Jan. 29, 1896	
Thrashing machine	Joel Dewey, jr	Troy, N. Y	Jan. 29, 1830	
Thrashing machine	Daniel Moyer	Cootstown, Pa	Feb. 10, 1 89 0	
Thrashing machine	Rudolph Miller	Marietta, Pa	Mar. 15, 1830	
Thrashing machine	Thomas Ingersoll	Murray, N. Y	Mar. 23, 1890	
Thrashing machine	William Corwithe	New York	Mar. 23, 1830	
Thrashing machine	William C. Ross	Pennfield, N. Y	April 1, 1890	
Thrashing machine	James Cooper	Augusta county, Va.	April 12, 1830	
Thrashing machine	Noah Lindsey	Catskill, N. Y	May 7, 1830	
Thrashing machine	James Douglass and	Attion N V	Mov 14 1830	
Thrashing machine	Walter Johnson Samuel Fisher and Da-	Attica, N. Y	May 14, 1830	
Till daming miscrimic	vid Sparry	Amsterdam, Va	May 19, 1830	
Thrashing machine	David Plagg, jr	Gardiner, Maine	June 4, 1830	
Thrashing machine	John Peters	Harrisburg, Pa	June 12, 1830	
Thrashing machine	Squire Gambell	Onondaga, N. Y	June 24, 1830	
Thrashing machine	Asher Slover and Wil-	Ononeuga, 11. 1	June 21, 1000	
	liam Sperry	New York	June 29, 1830	
Thrashing machine	James H. Arnold and			
	J. Bondsall	Morristown, Ohio	July 8, 1830	
Thrashing machine	David Flagg, jr	New York	July 10, 1830	
Thrashing machine	John Stowitts	Gorham, N. Y	July 13, 1830	
Thrashing machine	A. Lupton, J. Janney,	,		
	and John Lupton	Frederick co., Va	July 28, 1830	
Thrashing machine	R. L. Caustin	Ledyard, N. Y	Oct. 1, 1830	
Thrashing machine	William Ottinger	Whitemarsh, Pa	Oct. 1, 1839	
Thrashing machine	William J. Wood	Batavia, N. Y	Oct. 1, 1830	
Thrashing machine		New York	Oct. 1, 1830	
Thrashing machine	Alonzo L. Smith	Brutus, N. Y	Nov. 24, 1830	
Thrashing machine		Annalism NT W	N 07 1000	
Threshing machine	Norris Barnes	Aurelius, N. Y		
Thrashing machine	Rufus Humphrey	Victor, N. Y Schuylersville, N. Y.	Dec. 27, 1830	
Thrashing machine	Samuel Turner	Aurelius, N. Y		
Thrashing machine	William Emmons	New York	Feb. 7, 1831	
Thrashing machine	Truman Fox and W.	1	1,100	
	G. Borland	Little Falls, N. Y	Feb. 8, 1831	
Thrashing machine	John Harmon, jr	Upper Wakefield, Pa.		
Thrashing machine	Joseph C. Gentry	Philadelphia, Pa		
Thrashing machine	Fayette Cross	Sweden, N. Y	March 8, 1831	
Thrashing machine				
	seph Toucey	Rochester, N.Y	April 1, 1831	
Thrashing machine		Petersburg, Va	April 8, 1831	
Thrashing machine		Windham, N. Y	April 14, 1831	
Thrashing machine		Rochester, N. Y		
Thrashing machine		New Carlisle, Ohio.	April 22, 1831	
Thrashing machine		Portland, N. Y		
Thrashing machine Thrashing machine	Samuel Pohamer	New York		
Thrashing machine	Rinaldo P Gillett	Boonsborough, Md. Victor, N. Y	June 13, 1831	
Thrashing machine		Hopewellt'ns'p, N.J.		
Thrashing machine		Kinderhook, N. Y.,	July 20, 1831	
Thrashing machine	Ira Crawford.	Sweden, N. Y	July 20, 1831	
Thrashing machine	Phillip Harrington	Petersburg, Va	July 20, 1831	
Thrashing machine	Junius P. Palmer	Baltimore, Md	July 20, 1831	
Thrashing machine	Benjamin Balch and			
.	Luke Webster	Sweden, N. Y	July 29, 1831	
Thrashing machine	Jacob Redifer	Philadelphia, Pa	July 25, 1831	
Thrashing machine	Beniamin Malthy	Gates, N. Y	July 30, 1831	
Thrashing machine	Thomas Carpenter, 2d	Elmyra, N. Y	Sept. 28, 1831	
Thrashing machine		Alexander, N. Y	Sept. 28, 1831	
Thrashing machine	vv IIIIam Prescott	Pottsville, Pa	. Uct. 25, 1831	



ENGINEERING OR DESCOVERING.	PATRICTURE.	TOLOROVA.	waters stronger.
Thrashing machine	Eben, Gorden and D.		
THE COUNTY THE COURT OF THE COU	T. Gordon	Oswego county, N.Y.	Oct. 27, 1831
Thrashing machine	Johnson Dawkins	Westport, Ky	Nov. 10, 1831
Thrashing machine		Richmond t'na'p, Pa.	Nov. 16, 1831
Thrashing machine	Waldren Beach	Philadelphia, Pa	Nov. 23, 1831
Thrashing machine		Bridgeport, Conn	Jan. 31, 1832
Thrashing machine	Nathaniel Adams	Westmoreland, N.Y.	March 2, 1832
Thrashing machine	Hardin Branch	New York	April 18, 1832
Thrashing machine	Samuel Kable	Beaver Creek town- ship, Ohio	May 10, 1839
Thrashing machine	M. L. Flagior	New York	July 7, 1832
Thrashing machine	Squire Gambell	Onondaga, N. Y	Oct. 25, 1832
Thrashing machine	John R. Wheeler	Brighton, N. Y	April 9, 1833
Thrashing machine	Edmund Warren	New York	May 17, 1833
Thrashing machine	Stephen Norton	New Lebanon, N.Y.	
Thrashing machine	Daniel A. Webster	New York	June 29, 1833
Thrashing machine	Benjamin Hinkley	Fayette, Me	July 23, 1833
Thrashing machine	Jeremiah Fisk	Weld, Me	
Thrashing machine	L. Yale & P. C. Curtis		Sept. 17, 1833
Thrashing machine	David Porter	Boonesville, N. Y	
Thrashing machine	Samuel Clark	New York	Dec. 28, 1833
Thrashing machine	Theodore Smith	Enfield, N. Y	
Thrashing machine	William K. Weed	New York	
Thrashing machine	John P. Williams	Eldridge, Va	
Thrashing machine	Jehial F. Axtell	Geneva, N. Y	
Thrashing machine	D. Davis & J. Holmes		
Thrashing machine	Sylvanus Leonard	Hampden, Me	Mar. 27, 1834
Thrashing machine	E. Chandler and Jos. A. Holland	Kannahaa Ma	April 25, 1834
Thrashing machine	Richard P. Sutherland	Kennebec, Me Chatham, N. Y	April 26, 1834
Thrashing machine	James D. Ernes	Lansingburg, N. Y.	
Thrashing machine	John Melvin	Redfield, Me	June 18, 1834
Thrashing machine	M. Ames & J. Wright		
Thrashing machine	Gideon Hotchkiss	Windsor, N. Y	July 25, 1834
Thrashing machine	John Marshall, jr	Sweden, N. Y	
Thrashing machine	Isaac Gallop	Plainfield	Aug. 18, 1834
Thrashing machine	Charles Wilson	New York	
Thrashing machine	John Matthias	Manchester, Md	Aug. 27, 1834
Thrashing machine	Israel Lukens	Up. Dublin t'na'p,Pa	
Thrashing machine		Augusta, Mc	Nov. 19, 1834
Thrashing machine		777 . 01.	D 17 1004
Throphing machine	Eaton	Wooster, Ohio	Dec. 17, 1834
Thrashing machine Thrashing machine	Webber Furbish	Hallowell, Me	Dec. 17, 1834 Jan. 7, 1835
Thrashing machine	Luke Hale Joseph Ross	Hollis, N. H Boundbrook, N. J	Jan. 7, 1835 Feb. 6, 1835
Thrashing machine	Thomas D. Burrall	Geneva, N. Y	Mar. 6, 1835
Thrashing machine		Dublin, Md	Mar. 20, 1835
Thrashing machine	William W. Ross	Chillisquaque t'p,Pa.	
Thrashing machine		Oxford, Me	April 2, 1835
Thrashing machine		Bridgetown, N. J	April 3, 1835
Thrashing machine	Samuel S. Allen	Saratoga Sp'ngs, N. Y	
Thrashing machine	Henry Heberling	Harrison co., Ohio	April 8, 1835
Thrashing machine	James Whitehill	Frederick co., Md	April 22, 1835
Thrashing machine	S. C. Speed & W. S. Carpenter	Albemarie co., Va	May 9, 1835
Thrashing machine	Washington F. Pagett	White Post, Fred'k	
Threshing machine	Ed	county, Va	May 22, 1835
Thrashing machine	Edmund Warren	New York	May 29, 1835
Thrashing machine	Henry Johnson	Washington co., Ten	
Thrashing machine	William Laighton T. Rucker, jr., ass'nes		June 6, 1835
Throching machine	of P. Cheek	Murfreesboro', M.T.	June 12, 1836
Thrashing machine	Joseph Tyler	Brooklyn, Ct	
Thrashing machine	Merrel Blown	Chenango, N. Y	1911. MAN, 1030

. SEVENNISSEE NO DESCRIPTION.	PANJANTANA.	Minnes-	WHEN SHIPED.
Thrashing machine	Lewis H. Mans	Danville, Pa	Feb. 5, 1835
Thrashing machine	Thomas Bedee	Sandwich, N. H	Feb. 10, 1896
Brashing machine	James Cooper	Greene co., Ohio	Feb. 20, 1455
Thrashing machine	Hugh & J. W. Edgar.	Wayne co., Ohio	Mar. 23, 1838
Thrashing machine	Hugh Barclay	Lexington, Va	April 28, 1836
Thrashing machine	N. Goldsborough	Easton, Md	May 6, 1836
Thrashing machine	George Beaumont	Mount Pleasant, Pa.	May 6, 1636
.Thrashing machine	Jacob S. Rollins	New Gloucester, Me	June 2, 1835
Thrashing machine	J. Bailey & J. Sprinkle	Rockingham co., Va	June 20, 1836
Thrashing machine	Porter Cleaveland	Yancey Mills, Va	June 25, 1836
Thrashing machine	Aaron Parsons	Rockfield, Me	July 2, 1836
Thrashing machine	Alex'r W. B. wling	Front Royal, Va	Dec. 26, 1837
Thrashing machine	Frederick & H. Grieb		Oct. 19, 1838
Thrashing machine	David Stafford	Syracuse, N. Y	May 19, 1840
Thrashing machine	James Cummings	Canonsburg, Pa	Dec. 10, 1840
Thrashing machine	Jesse Bowles	Louisa, Va	June 11, 1843
Thrashing machine	George Anstine	Windsor, Pa	April 15, 1843
Thrashing machine	Henry Hizer & A. B.	Wooster, Ohio	June 14, 1843
Thrashing machine	Crawford Christian Reif	Hartleton, Pa	June 24, 1843
Thrashing machine	William Eaton	Upper Alton, Ill	July 28, 1843
Thrashing machine	Luther & E. Whitman		Mar. 20, 1844
Thrashing machine	Chs. W. Cathcart	New Durham, Ind	April 25, 1844
Thrashing machine	Frederick A. Stuart	Catharine, N. Y	June 5, 1844
Thrashing machine	J. T. & E. Warren	New York	July 14, 1845
Thrashing machine	J. A. Taplin & Wal-		,,
	dren Eddy	New York, N. Y	Oct. 3, 1846
Thrashing machine	Foster & Jones	Laporte, Ind	Oct. 17, 1846
Thrashing machine	Jesse Fitzgerald	New York, N. Y	July 14, 1846
Thrashing machine, (on Ballou's	J. C. Boyd & A. Kit-		
improvement.)	chen	Rush township, Pa.	June 7, 1895
Thrashing machine, (on Ballou's			
improvement)	George Jessup	Troy, N. Y	Dec. 14, 1830
Thrashing machine, called the	John W. Post and J.	Philadelphia, Pa., &	
American, &c.	Ryan.	New Baltimore, Va	Oct. 10, 1838
Thrashing machine, called the Sid-		Sidney, Kennebec,	NT - 1000
ney.	B. Flagg.	Maine	Nov. 5, 1895
Thrashing machine, chaffing straw	Russel Bradley	Williston, Vt	Oct. 6, 1835
Thrashing & cleaning grain, com-	Fligur I Booth	Conendaima N V	Tul- 04 1946
bination machine	Elizur L. Booth	Canandaigua, N. Y.	July 24, 1846
	Matthew McKeever	Staunton, Va	Mar. 15, 1839
Thrashing machine, clover	John P. Ridings	Hillsborough, Ohio.	
Thrashing machine, clover, &c	A. Burgess & H. Bald-		2 date 10, 1000
Zaraming manner, active, 400111	win	Washington, Ct	Oct. 10, 1835
Thrashing machine, clover & rice.	Moses Davenport	Philips, Me	
Thrashing machine, clover, &c	Samuel Kern	Strasburg, Va	
Thrashing machine, concaves em-		θ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ployed in	Isaac Zellers	Greenwich, N. J	Jan. 24, 1842
Thrashing machine, conducting		•	•
the straw and grain from the			
thrasher	Luther Whitman	Winthrop, Me	Aug. 25, 1840
Thrashing machine, conveying			
straw from		Clarendon, N. Y	Mar. 28, 18 36
Thrashing machine, float tooth	Abram W. Summers .	Gates, N. Y	Mar. 21, 1831
Thrashing machine, flying beater.	Hardin Branch	New York	Mar. 9, 1833
Thrashing machine, grain	Ashley Townsend	Leroy, N. Y	Dec. 30, 1841
Thrashing machine, & grist mill.	Matthew Wilson		
Thrashing machine, & hair picker	Joshua Beam	Redfield, Me	Nov. 5, 1834
Thrashing machine, hanging the	Holdridge Derrer	Norwich C.	A 100 1000
Threshing machine home namer	Holdridge Dewey Nehemiah P. Stanton.		April 27, 1833
Thrashing machine, horse power. Thrashing machine, borse power.			
Thrashing machine, horse power.			
smanning maname, unite boater	I amount a vive as combine.		

ngujapusuk or dagaankana.	PANISTRUM.	asimbired.	when issued.
Threshing machine, horse power.	Amos Parker	Portland, Me	May 14, 1834
Thrashing machine.—See Mowing. Thrashing machine, portable	H. & J. W. Edgar	Wayne co., Ohio	June 6, 1835
Thrashing machine, preventing dust from rising	Joseph Ross	Boundbrook, N. J	Oct. 8, 1838
Thrashing machine, remov'g straw and separating the grain in	John Criswell	Cecil, Pa	Nov. 26, 1840
Thrashing machine, for rice, &c Thrashing machine, for rice, &c	Samuel Rogers William Matthewes	Ashville, N. C Charleston, S. C	July 25, 1831 Aug. 27, 1835
Thrashing machine, for rice, con-	Isaac S. Palmer	Philadelphia, Pa. :	Dec. 6, 1831
Thrashing machine, shaking the screen in	Jesse Lincoln	Uniontown, Pa	May 8, 1840
Thrashing machine, shelling corn, &c	Wresteum P. Barton.	Batavia, N. Y	Feb. 28, 1833
hulling grain	Thomas Elliott, jr	Middletown, Ky	Mar. 26, 1839
breaking hemp and flax Thrashing machine, straw carrier	Daniel A. Webster	New York	
and separator for	Russell Tomlinson	Jackson, Mich	
ter	Namon Goodsell	Clinton, N. Y	Mar. 21, 1823
Thrashing machine, vibrating	John Stewart Moses Pennock	Cambridge, Md Kesnett's square, Pa	
Thrashing machine, teeth for Thrashing machine, and winnow-	Jeremiah Wrightson	Tobacce Stick, Md.	May 17, 1839
ing grainThrashing and reaping grain	Andrew Ralston Jeremiah Darling	Hopewell, Pa Adrian, Mich	Mar. 7, 1842
Thrashing rice	Jehiel Butts	Georgetewn, S. C	
Thrashing rice	Ephraim Sands David Flagg, jr	Cincinnati, Ohio	Nov. 29, 1830
Thrashing and shelling corn Thrashing and shelling corn	Asa Cady	Ithaca, N. Y	
Thrashing and shelling corn, and grinding apples	Alonzo L. Smith	Weedsport, N. Y	
Thrashing and shelling corn, and grinding apples	Jesse Bevier	Sempronius, N. Y	
Thrashing and smut machine	G. Bostwick and H. Spencer.	Marylandtown, N.Y	
Thrashing and winnowing Thrashing and winnowing	Samuel Houston	Virginia	May 3, 1804 Nov. 23, 183
Thrashing and winnowing* Thrashing & winnowing machine	J. A. & H. A. Pitts	Winthrep, Me Frederick, co., Md.	Dec. 29, 183 Feb. 15, 180
Thrashing & winnowing machine Thrashing & winnowing machine	Seth Ballou	Livermore, Me Augusta, Me	
Thrashing & winnowing machine Thrashing & winnowing machine	Sylvanus C. Hersey	Rochester, N. Y Philadelphia, Pa	Nov. 7, 1820
Thrashing & winnowing machine Thrashing & winnowing machine	William Laighton	Portsmouth, N. H.	Nov. 17, 183
Thrashing and winnowing, & flax breaking machine		New York	Aug. 11, 182
Thrashing & winnowing machine &c., grain separators.	J. V. A Wemple and George Westinghouse.	Mohawk N.Y	July 13, 184
Thrashing and winnowing wheat and small grain	Thomas D. Burrall	Geneva, N. Y	Dec. 6, 183
	. John Robinson	. Charlotte, Va	.) Feb. 25, 180
Tobacco, curing Tobacco, curing Tobacco, curing	Edmund Pendleton M. & Thos. Baker	Louisa co., Va	Dec. 18, 182

A	4
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Trees, &c., mode of felling. J. Trees, fruit, preventing their destruction, &c	Davis G. Tuak	New York Newbury, Mass Leominster, Mass	June 19, 14 June 19, 14 June 19, 14 June 21, 1 Oct. 31, 1 Feb. 25, 14 Nov. 13, 1	812 813 816 838 840 835
Trees, &c., mode of felling. J. Trees, fruit, preventing their destruction, &c	James Hamilton Paul Adams Jonas Kendall Jonaiel Newhall William Ellis William Armstead James A. Lee, adm'or of James Lee Jonathan Roberts, jr Asher Spicer Martin Miller	New York Newbury, Mass Leominster, Mass Portsmouth, R. I Lynn, Mass Waterville, Me Prince Wm. co., Va. Maysville, Ky	June 19, 14 June 19, 14 June 19, 14 June 21, 1 Oct. 31, 1 Feb. 25, 14 Nov. 13, 1	812 816 838 840 835
Trees, fruit, preventing their destruction, &c Prees, fruit, preventing canker worm in Trees, fruit, preventing canker worm in Trees, protecting from the canker worm in Washing potatoes and roots. Weevil, mode of destroying. Winnowing clover seed.	Paul Adams Jonas Kendall Jonathan Dennis, jr Daniel Newhall William Ellis William Armstead James A. Lee, adm'or of James Lee James Lee	Newbury, Mass Leominster, Mass Portsmouth, R. I Lynn, Mass Waterville, Me Prince Wm. co., Va. Maysville, Ky	June 19, 14 Jan. 4, 15 June 21, 1 Oct. 31, 1 Feb. 25, 14 Nov. 13, 15	812 816 838 840 835
struction, &c Trees, fruit, preventing canker worm in Trees, fruit, preventing canker worm in Trees, protecting from the canker worm. Washing potatoes and roots Weevil, mode of destroying Winnowing clover seed Winnowing flax seed Winnowing flax seed Winnowing grain Vinnowing grain Winnowing grain Winnowing grain Winnowing grain Winnowing grain Winnowing grain	Tonas Kendall Tonathan Dennis, jr Daniel Newhall William Ellis William Armstead fames A. Lee, adm'or of James Lee Tonathan Roberts, jr Asher Spicer Martin Miller	Leominster, Mass Portsmouth, R. I Lynn, Mass Waterville, Me Prince Wm. co., Va. Maysville, Ky	Jan. 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	816 838 840 835
worm in Trees, fruit, preventing canker worm in Trees, protecting from the canker worm* Washing potatoes and roots Weevil, mode of destroying Winnowing clover seed Twinnowing clover seed Winnowing flax seed Winnowing grain CP Winnowing grain Vinnowing grain	Tonas Kendall Tonathan Dennis, jr Daniel Newhall William Ellis William Armstead fames A. Lee, adm'or of James Lee Tonathan Roberts, jr Asher Spicer Martin Miller	Leominster, Mass Portsmouth, R. I Lynn, Mass Waterville, Me Prince Wm. co., Va. Maysville, Ky	Jan. 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	816 838 840 835
worm in Trees, fruit, preventing canker worm in Trees, protecting from the canker worm* Washing potatoes and roots Weevil, mode of destroying Winnowing clover seed Twinnowing clover seed Winnowing flax seed Winnowing grain CP Winnowing grain Vinnowing grain	onathan Dennis, jr Daniel Newhall William Ellis William Armstead fames A. Lee, adm'or of James Lee fonathan Roberts, jr Asher Spicer Martin Miller	Portsmouth, R. I Lynn, Mass Waterville, Me Prince Wm. co., Va. Maysville, Ky	June 21, 1 Oct. 31, 1 Feb. 25, 1 Nov. 13, 1	8 38 8 40 8 35
Trees, fruit, preventing canker worm in J. Trees, protecting from the canker worm ** Washing potatoes and roots. V. Weevil, mode of destroying. J. Winnowing clover seed. J. Winnowing clover seed. Minnowing clover seed. Minnowing clover seed. J. Winnowing clover seed. J. Winnowing clover seed. Minnowing clover seed. Minnowing clover seed. R. Winnowing clover seed. R. Winnowing clover seed. J. Winnowing clover seed. J. Winnowing clover seed. J. Winnowing clover seed. Winnowing clover seed. Winnowing clover seed. Minnowing grain. C. Winnowing grain. V. Winnowing grain. J. Winno	Daniel Newhall William Ellis William Armstead fames A. Lee, adm'or of James Lee Onathan Roberts, jr Asher Spicer Martin Miller	Portsmouth, R. I Lynn, Mass Waterville, Me Prince Wm. co., Va. Maysville, Ky	June 21, 1 Oct. 31, 1 Feb. 25, 1 Nov. 13, 1	8 38 8 40 8 35
worm in	Daniel Newhall William Ellis William Armstead fames A. Lee, adm'or of James Lee Onathan Roberts, jr Asher Spicer Martin Miller	Lynn, Mass Waterville, Me Prince Wm. co., Va. Maysville, Ky	Oct. 31, 1 Feb. 25, 1 Nov. 13, 1	8 40 8 35
worm*. Washing potatoes and roots. Washing potatoes and roots. Weevil, mode of destroying. Winnowing clover seed. J. Winnowing clover seed. Winnowing grain. Pwinnowing grain. Vinnowing grain. Vinnowing grain. J. Winnowing grain. J. Winnowing grain.	William Ellis William Armstead fames A. Lee, adm'or of James Lee Onathan Roberts, jr Asher Spicer Martin Miller	Waterville, Me Prince Wm. co., Va. Maysville, Ky	Feb. 25, 14 Nov. 13, 1	835
Washing potatoes and roots	William Ellis William Armstead fames A. Lee, adm'or of James Lee Onathan Roberts, jr Asher Spicer Martin Miller	Waterville, Me Prince Wm. co., Va. Maysville, Ky	Feb. 25, 14 Nov. 13, 1	835
Weevil, mode of destroying V Weevil, mode of destroying J Winnowing clover seed A Winnowing clover seed M Winnowing clover seed J Winnowing clover seed J Winnowing clover seed J Winnowing clover seed G Winnowing clover seed E Winnowing clover seed E Winnowing clover seed H Winnowing clover seed J Winnowing clover seed H Winnowing clover seed J Winnowing clover seed E Winnowing clover seed J Winnowing flax seed D Winnowing flax seed A Winnowing flax seed A Winnowing grain V Winnowing grain J Winnowing grain J Winnowing grain J	William Armstead fames A. Lee, adm'or of James Lee fonathan Roberts, jr Asher Spicer Martin Miller	Prince Wm. co., Va. Maysville, Ky	Nov. 13, 1	
Winnowing clover seed J. Winnowing clover seed G. Winnowing clover seed B. Winnowing clover seed H. Winnowing clover seed H. Winnowing clover seed J. Winnowing clover seed H. Winnowing clover seed J. Winnowing clover seed J. Winnowing flax seed G. Winnowing grain C. Winnowing flax seed A. Winnowing grain V. Winnowing grain J. Winnowing grain J. Winnowing grain J.	James A. Lee, adm'or of James Lee Jonathan Roberts, jr Asher Spicer Martin Miller	Maysville, Ky		ន៳
Winnowing clover seed J. Winnowing clover seed M. Winnowing clover seed J. Winnowing clover seed J. Winnowing clover seed G. Winnowing clover seed G. Winnowing clover seed B. Winnowing clover seed H. Winnowing clover seed J. Winnowing flax seed J. Winnowing flax seed P. Winnowing flax seed A. Winnowing grain V. Winnowing grain J. Winnowing grain J. Winnowing grain J.	of James Lee Tonathan Roberts, jr Asher Spicer Martin Miller			~
Winnowing clover seed J. Winnowing clover seed M. Winnowing clover seed J. Winnowing clover seed J. Winnowing clover seed G. Winnowing clover seed G. Winnowing clover seed R. Winnowing clover seed R. Winnowing clover seed B. Winnowing clover seed B. Winnowing clover seed J. Winnowing clover seed J. Winnowing flax seed J. Winnowing flax seed P. Winnowing flax seed P. Winnowing grain P. Winnowing grain J.	onathan Roberts, jr Asher Spicer Martin Miller		1 12 -	
Winnowing clover seed	Asher Spicer Martin Miller	Penneulvania	Aug. 17, 1	835
Winnowing clover seed J. Winnowing clover seed J. Winnowing clover seed J. Winnowing clover seed G. Winnowing clover seed E. Winnowing clover seed H. Winnowing grain C. Winnowing grain C. Winnowing grain P. Winnowing grain V. Winnowing grain J. Winnowing grain J. Winnowing grain J.	Martin Miller	L CHILDY LYCHICA	Feb. 13, 1	796
Winnowing clover seed		Connecticut	April 22, 1	802
Winnowing clover seed	ohn Coule	Pennsylvania	July 19, 1	802
Winnowing clover seed		Pennsylvania	Mar. 21, 1	803
Winnowing clover seed R Winnowing clover seed H Winnowing clover seed H Winnowing clover seed H Winnowing clover seed D Winnowing fanning mill, for cleaning grain C Winnowing flax seed P Winnowing flax seed A Winnowing grain P Winnowing grain V Winnowing grain J Winnowing grain J Winnowing grain J	Timothy Kirk	York, Pa	July 28, 1	803
Winnowing clover seed R Winnowing clover seed H Winnowing clover seed H Winnowing clover seed H Winnowing clover seed D Winnowing fanning mill, for cleaning grain C Winnowing flax seed P Winnowing flax seed A Winnowing grain P Winnowing grain V Winnowing grain J Winnowing grain J Winnowing grain J	George Faber	Chambersburg, Pa	April 5, 1	832
Winnowing clover seed	David Rankin	Augusta co., Va	Mar. 18, 1	834
Winnowing clover seed	Reuben Ranger	Milton, Me	Aug. 21, 18	
Winnowing clover seed & wheat. D Winnowing, fanning mill, for cleaning grain	Hiram Hoth	Weld, Me	Sept. 26, 18	835
Winnowing, fanning mill, for cleaning grain. Winnowing flax seed. Winnowing flax seed. A Winnowing grain. Winnowing grain. Vinnowing grain. Jinowing grain. Winnowing grain. Jinowing grain.	ames Manning	Lambertville, N. Y	Jan. 6, 1	8 36
ing grain	David Buckingham	Pennsylvania	Dec. 21, 1	803
Winnowing flax seed				
Winnowing flax seed	Calvin O. Guernsey	Russia, N. Y	Oct. 12, 18	
Winnowing grain P Winnowing grain V Winnowing grain J Winnowing grain I	Paul_Gaultry	New York	April 24, 1	
Winnowing grain	Asa Hook	Searsmount, Me	Sept. 9, 10	
Winnowing grain J. Winnowing grain Is	Peter H. Schenck	New York	Feb. 15, 16	
Winnowing grain Is	William H. Peabody.	Woodbury, Ct Plymouth, Mass	June 8, 1	
	ohn James, 3d	Plymouth, Mass	May 4, 1	
	srael Honeywell	Hillsdale, N. Y	April 27, 18	
	A. Fettrow	York, Pa	May 28, 10	
	l'homas Beatty	Washington, D. C.	Oct. 5, 18	
	saac Bromwell	Balumore, Md	Nov. 26, 10	
	Holland Child	Canton, Me	Jan. 11, 18 Nov. 24, 18	
	ohn Litzenberger	Philadelphia, Pa Ridgefield, Ct	Feb. 13, 18	
	Lott Forrister	Cleremont N L	May 18, 18	
	Gilbert Arnold	Claremont, N. H Angelica, N. Y	June 17, 18	
	Michael Urffer	Upper Milford, Pa	Oct. 1, 18	
	Thomas Reese	Baltimore, Md	July 20, 18	
	oseph D. Prescott	Chesterville, Me	July 20, 18	
	Abel Look and Wm.	0.1.00.01 (1.1.0, 1.120)	·,,	
		Fredericktown, Md.	Mar. 21, 18	832
Winnowing grain N	Coleman, jr Markwell, Thomas	Alfred, Me	May 30, 18	
Winnowing grain	David H. Cole	Portland, Me	July 17, 18	
	deorge A. Johnson	Johnsonburg, N. Y.	Dec. 15, 18	838
	M. N. Armstrong and	,	,	
	W. H. King	New York	Dec. 2, 18	8 34
Winnowing grain and destroying				
	oel Morgan	Baltimore, Md	Feb. 28, 18	810
	Abel Look	Pittsfield, Mass	June 13, 18	831
Winnowing grain and seed V			Oct. 28, 18	
	William Tunstall	Richmond, Va	June 30, 18	
Winnowing machine H	I. Watkins	Washington co., Md	Mar. 18, 18	
Winnowing machine Je	osiah Browne	New London, N. H.	Nov. 21, 18	
Winnowing machine H	Iarvey Beadle	Wallingford, Ct	Mar. 30, 18	
Winnowing machine D	David S. Buck	Hurley, N. Y	Feb. 10, 18	823
Winnowing machine J.	ohn Peyton	Orange co., Va	Nov. 7, 18	
Winnowing machine T		Locke towns'p, N.Y	Mar. 6, 18	835
Winnowing machine Je	ruman B. Brown	Kent co., Md	June 15, 18	
Winnowing machine E	eremiah Nichols			3 35

^{*} Additional improvement, dated April 94, 1841.

REVERTIONS OR DISCOVERIME.	PATRICTURE.	restrance.	WHEN SHUED.
Winnowing machine	David Wilson	Johnston, Vt	Feb. 20, 1894
Winnowing machine	Jonathan Beane	Mountville, Me	Mar. 31, 1850
Winnowing machine	Abel & Asahel Lomax	Clinton co., Ohio	May 8, 180
Winnowing machine	G. W. D. and Joseph	,	
	_Culp	Allenville, Ia	Aug. 4, 1843
Winnowing machine	James Starr	New Lisbon, Ohio	Sept. 9, 1843
Winnowing machine	Thomas Cole & John	A 11 - 12 - 1	
Winners working	Littlefield	Allenville, Ia	Aug. 7, 1844
Winnowing machine	Thomas Chandler and Asa D. Reed	Miles Mich	Dec. 7, 1844
Winnowing machine	Isaac T. Grant	Miles, Mich Schaghticoke, N. Y.	July 10, 1845
Winnowing machine	Anthony Cooley	Kalamazoo, Mich	Sept. 2, 1845
Winnowing machine, fanning mill	Samuel Dodge	Cleaveland, Ohio	Feb. 9, 1806
Winnowing machine, fanning mill	Oliver Barret, jr	Sandy Hill, N. Y	Mar. 23, 1806
Winnowing machine, fanning mill	Benjamin Atwell	Burlington, N. Y	Sept. 19, 1806
Winnowing machine, fanning mill	Samuel Snedeker	Johnstown, N. Y	April 27, 1810
Winnowing machine, fanning mill	Thomas W. Jessup	Fredericktown, Md.	June 18, 1811
Winnowing machine, fanning mill	Thomas S. Barnum	Sharon, Ct	Jan. 15, 1812
Winnowing machine, fanning mill	Samuel Fitch	Homer, N. Y	Oct. 29, 1814
Winnowing machine, fanning mill	Joel Soper	Windsor, Ct	Dec. 3, 1814
Winnowing machine, fanning mill	Benjamin D. Beecher.	New Haven, Ct	May 30, 1816
Winnowing machine, fanning mill Winnowing machine, fanning mill	Daniel Donoghoe	New York	April 16, 1821
Winnowing machine, faming mill	David Neefus Lemuel Peck	Flatlands, N. Y	Sept. 22, 182; Aug. 13, 1824
Winnowing machine, fanning mill		Brookfield, Ct Springfield, Pa	Mar. 28, 182
Winnowing machine, fanning mill		Springueia, 1 a	100, 100
, 8 9	Olmstead	Caledonia, N. Y	Nov. 7, 1826
Winnowing machine, fanning mill	Enoch Walker	Springfield, 4 cor.,Pa	
Winnowing machine, fanning mill	Justus Frary	Southampton, Mass.	Feb. 17, 1829
Winnowing machine, fanning mill	David Sears	Franklin, N. Y	Mar. 24, 1830
Winnowing machine, fanning mill	William C. Hawley	Brookfield, Ct	Oct. 1, 1830
Winnowing machine, fanning mill		Boscawen, N. H	June 13, 1831
Winnowing machine, fanning mill		Edmeston, N. Y	Jan. 6, 1839
Winnowing machine, fanning mill Winnowing machine, fanning mill	P. Prine & L. Huestis		
Winnowing machine, fanning mill	David Clinton J. W. Hunter, M. L.	New Haven, Ct	Nov. 29, 183
	Hunt, & S. Holman.	Oakland co., M. T	Dec. 18, 1835
Winnowing machine, fanning mill		Milford, Pa	Sept. 11, 183
Winnowing machine, fanning mill	Alfred Ervin	Jefferson, Md	Sept. 30, 1839
Winnowing machine, fanning mill,	David Philips and		
grain.	Asa Jackson	Franklin Mills, Va	May 4, 1841
Winnowing machine, screen for	D. A. & S. Church		June 27, 1846
Winnowing machine, tub mill	Moses Elliot		May 18, 1816
Winnowing mill	Daniel Clow	Port Byron, N. Y	June 16, 1846
Winnowing mill, machinery	James Ruple		May 19, 183
Winnowing mill, machinery Winnowing screen, for cleaning	Daniel Davis	Cormsn, N. H	July 5, 1839
grain	Ephraim Tisdale	Windham Ct	July 17, 181
Winnowing screen, pendulum	Lewis Dupree		
Winnowing screen, separating	Zowa Zapioci i i i i	distribution, or other	
grain, &c	Peter Broughton	Charlesten, S. C	Aug. 5, 183
Winnowing, separat'g clover chaff			1
from straw	John Bolton	Harrisburg, Pa	July 28, 183
Winnowing, separat'g clover seed			
from chan	Reuben Ranger	Wilton, Me	Aug. 21, 183
Winnowing, separat'g garlic from		Waste Da	G 9 104
grain	William C. Grimes	York, Pa	ьерт. 3, 184
Winnowing, separat'g garlic from	Tonathan F Pares	N. Granville, N. Y.	Oct 91 194
wheat Winnowing, separating grain from	Jonathan F. Barrett	17. Granvino, 14. I .	001. 31, 104
straw.	Christian R. Packard	Clarendon, N. Y	Nov. 18. 184
Winnowing, separating onion seed			1 200, 201
		Brookfield, Ct	136 10 101
from grain	Tomlinson	Brookneid, Ct	Mar. 16, 181

Inventions or discoverime.	PATRITING.	REVIDENCE.	WHIST HOUSED.
Winnowing, separating wild peas,			
&c., from grain*	Lester Butler	Cobleskill, N. Y	June 3 1837
Winnowing and thrashing	E. P. Davis and W.		, 100,
AA III II O A DIG CIII C CIII C CIII C C C C C C C C C	Carey	Riga, N. Y	Tune 11 1890
Winnowing wheat	Benjamin Tyler		April 15 1706
Winnowing wheat	Stephen Stillwell		Inly 0 1909
Winnowing wheat	William Davis	Fairfield, Ct	Ten 04 1915
Winnowing wheat	William Adams	Virginia	
Winnowing wheat	Samuel Weaver	Frederick co., Md	Mar. 11, 1816
Winnowing wheat	Samuel Martin & Zad.	rroderion co., mu	Mar. 11, 1010
A muonma miear		Omtonio ao N V	T 10 1000
TITime amin a mile and	Chapin	Ontario co., N. Y	Jan. 10, 1020
Winnowing wheat		Oneida co., N. Y	Ame of 1000
Winnowing wheat	George Hoffman		
Winnowing wheat	John Deakyne	Petersburg, Va	Sept. 13, 1833
Winnowing wheat	D. Flanders and C.	n . a	
	Rathburn	Fort Covington, N.Y	Feb. 13, 1836
Winnowing wheat	Stephen M. Yeaman		June 20, 1846
Winnowing wheat	Jacob Shermer	New Valley, Md	
Winnowing, wheat fans	David Watkins		
Winnowing, wheat fans	William Stanley	Jamestown, N. C	Nov. 18, 1844
Yoke, horse	Adolphus Allen	Troy, N. Y	June 29, 1827
Yoke, horse and oxen	Gideon Hotchkiss	Windsor, N. Y	Aug. 31, 1837
Yoke, horse	Elijah H. Danforth		July 28, 1846
Yoke, ox	David Chappel	Sheldon, N. Y	Sept. 3, 1846

^{*} Reissued March 8, 1839.

CLASS No. II.

METALLURGY

AND

Manufacture of Metals and Instruments therefor.

LIST OF PATENTS.

· CLASS II.-METALLURGY and Manufacture of Metals and Instruments therefor.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Andirons	John Stickney	Baltim ere , Md	May 4, 1805
Andirons	Willoughby Dexter	Winchester, Conn	May 17, 1814
Andirons	William Pye	New York	Nov. 16, 1821
Andirons	Edmund Smylie	New York	Feb. 1, 182
Andirons	John Griffiths	New York	Mar. 15, 182
Andirons	William Wilson	Greenfield, Mass	May 16, 183
Andirons, bars	J. Cockran	Batavia, N. Y	July 1, 183
Andirons, conveying air through.	John R. Remington	Lowndes co., Ala	May 16, 184
Andirons, construction of	Edward Smylie	New York, N. Y	July 12, 184
Andirons See fire-place, Class 5.			·, 201
Andirons, repairing and finishing.	Edmund Smylie	New York	Feb. 22, 182
Anvil and hammer	Charles Josselyn	Pembroke, Mass	Oct. 9, 181
Anvil, block	S. Van Tiers	Hanoveriron Works,	000. 0, 101
inter, block	- · · · · · · · · · · · · · · · · · · ·	Pa	Mar. 19, 183
Anvils, machine for making	John Taylor	Shadegap, Penn	Jan. 31, 184
Auger for boring earth	John M. Cooper	Newbern, Ala	Oct. 7, 184
Auger, screw, manufacturing	William Field	Pawtucket, R. I	April 15, 184
Awi hafts	Edwin Martin	Grafton, Mass	Mar. 21, 184
Awl haft	David M. Smith	Gilsum, N. H	Oct. 25, 183
Awl haft	David M. Smith	Gilsum, N H	Mar. 31, 183
		Gilsum, N. H	July 1, 183
Awl haft	William Campbell	Montague, Mass	Aug. 13, 183
Awls, attaching to hafts	Dexter Pierce	J '	Aug. 10, 100
Awls, drills, &c., setting	Erastus B. Bigelow and		Jan. 27, 183
Anda andres and other tools	Stephen Brigham.	ship, Mass	
Awls, sockets, and other tools	Herrick Aikin	Dracut, Mass	Dec. 16, 183
Axes	John Alley, sen	Pise, Ind	April 9, 182
Axes	Erastus Shaw and R	Conton Com	Nov. 3, 18
A	H. Burk	Canton, Conn	
Axee	Josiah Pratt, jr	Charlemont, Mass	April 6, 183
Axee	Benjamin Smith	Canton, Conn	Nov. 2, 183
Axes	Elisha K. Root	Canton, Conn	Mar. 30, 183
Axes	(J. Wright, assignee of		A 01 100
A 6 .	D. C. Stone)	Naponock, N. Y	Apr. 21, 18
Axes, forging	David Hinman	Canton, Conn	June 29, 183
Axes, forging	Erastus Shaw	Canton, Conn	June 29, 18
Axes, forming the eyes of	Milton D. Whipple	Douglass, Mass	Jan. 31, 183
Axes, hoes, scythes, pitchforks,&c		Onconta, N. Y	July 9, 18
Axes, hoes, scythes, pitchforks,&c		Washington co., R. I.	
Axes, hoes, scythes, pitchforks, &c	John F. Mackie	New York	Nov. 19, 18
Axes, hatchets, &c	David Hinman	Winchester, Conn Collinsville, Vt	Nov. 2, 18
Axes, hatchets, punching eyes, &c		Collinsville, Vt	Dec. 10, 18
Axes, machine for making	Isaac W. Turner	Baltimore, Md	Nov. 4, 18
Axes, oval	Stephen Hyde	. Williamsburg, Mass.	
Axes, oval		Williamsburg, Mass	
Axes, oval		. Winstead, Conn	
Axes, pick			
Axes, &c., sharpening		. New Jersey	Mar. 16, 17
Bands, contracting, wrought iron		Richmond, Va	. Mar. 16, 18
Bands, iron keyed	. Edward Cooper	. Richmond, Va	. Sept. 14, 18
Bands, key for tobacco casks	. James M. Talbott	. Richmond, Va	. Sept. 14, 18
Bands.—See Class 13.			1
Bars, hollowing out iron	. Thomas Rowland	. Gloucester co., Pa.	. Dec. 24, 18

Bars, for grates and stoves. Beams, iron, pattern for casting. Bedstacd fastenings.—See Class 12. Bedstacd fastenings.—See Class 12. Bedstacd fastenings. Bells. Bells. Bells. Bells. Bells. Bells. William Hoyt. Bells for cows. Bells for cows. Bells for cows. Bells for for see regimes. Jason Barton. Samuel Booth. Bells, improvement in hotel. Jason Barton. Cairo, N. Y. Dec. 29, 18 Bells, prings.—See Class 17. Bells, prings.—See Class 17. Bells, prings. Bells, improvement in hotel. Jason Barton. Cairo, N. Y. Mar. 18, 19 Bells, or for every seep. Bells for fire regimes. Bells, prings. George Fage. John Barker. John Barker. Bolts, apiral, for cutting screws. Biowing and striking, mode of . Blove-pipe, for blost furnaces. John Barker. Bolts, copper, uniting. Bolts, apiral, for cutting screws. George Fage. John Barker. John Barker. Bolts, apiral, for cutting screws. Clement Rengin Bolts and bars, forging. Clement Rengin Bolts and bars, forging. Bolts and bars, forging. Bolts and bars, forging. Bolts and bars, forging. Bolts and spiles, drawing. Bolt and				T
Beams, iron, pattern for casting. Bedstead fastenings.—See Class 17. Bedstead fastenings.—See Class 18. Bedstead fastenings.—See Class 18. Bells.———————————————————————————————————	MURNYLONG OR DISCOVERSES.	Pathwend.	RIMIDSHCE.	WHEN 1800ED.
Beams, iron, pattern for casting. Bedatead fastenings. Bells. B	Bars, for grates and stoves	Jordon L. Mott.	New York	Oct. 14, 1835
Bedstaef fastenings — See Class 17 Bedstaef fastenings — Bedstaef fastenings — Benjamin Hinkley — Utica, N. Y. — Dec. 9, 18 Bells — William Hoyt. — Brookville, Ind. — March 3, 18 Bells — William Hoyt. — Brookville, Ind. — March 3, 18 Bells, brazing and bronzing them for cows — or sheep. — Simoon Newton — Connecticut. — Dec. 29, 18 Bells for cows — or sheep. — Simoon Newton — Connecticut. — Dec. 29, 18 Bells for fire engines. — Simoon Newton — Dec. 29, 18 Bells for horses — Simoon Newton — Dec. 29, 18 Bells, improvement in hotel. — T. D. Jackson and A. Judson — Cairo, N. Y. — March 8, 18 Bells, will be striking, mode of — Blow-pipe, for blast furnaces — Bolts, copper, uniting — Bolts, copper, uniting — Bolts, copper, for ship building — Bolts, copper, with the ship — Bolts and bars, forging. — Bolts and bars, forging. — Bolts and spike, drawing. — Bolts, cutting, — Brads, cuttin				Dec. 28, 1894
Bedstaed fastenings. Bedstaet af stenings. B			,,	,
Bedistack fastenings. Bells. Bells for server testing and bronzing them for cows or sheep. Bells for cows. Bells for fire engines. Bells for horses. Bells for horses. Bells for horses. Bells, improvement in hotel. Jason Barton. T. D. Jackson and A. Judson. Blowing and striking, mode of bells with a single for ship bells with a single for cutting screws. Blowing and striking, mode of bells with a single for ship bell ding. Bolts, casting, for ships. Bolts, copper, for ships building. Bolts, copper, for ship building. Bolts and bars forging. Bolts and ships, drawing. Bolts drawing. Bolts drawing. Bolts drawing. Bolts drawing. Bolts drawing. Bolts drawing. B		E. F. Gazzam	Pittsburg, Pa	Jan. 23, 1846
Bells				
Bells				
Bells, brazing and bronzing them for cows or sheep. Bells for for cows. Bells for fire engines. Bells in for for end fire engines. Bells for fire engines. Bells for fire engines. Bells for fire engines. Bells in for for end fire engines. Bells for fire engines. Bells for fire engines. Bells for fire engines. Bells in for for end fire engines. Bells for for tutting end fire engines. Boxes for pullies, casting metallic bench and fire fire fire for double speeders. Boxes for pullies, casting metallic bench and fire fire fire fire for double speeders. Boxes for pullies, casting metallic bench per fire for double speeders. Boxes for pullies, casting me				
Bells, brazing and bronzing them for cows or sheep. Bells for cows or sheep. Bells for fore or sheep. Bells for fore or sheep. Bells for fore so sheep. Bells for fore so sheep. Bells for fore or sheep. Bells for fore so sheep. Bells for fore so sheep. Bells for fore so sheep. Bells for fores. Jason Barton. Cairo, N. Y. Mar. 18, 18 Bells, moulding and casting. Bells for horses Jason Barton. Cairo, N. Y. Mar. 18, 18 Bells for horses Albany, N. Y. Nov. 4, 18 Albany, N. Y. Morch 3, 19 Albany, N. Y. Morch 4, 18 Bells moulding and casting. Bells moulding Engand I Pres. Bells moulding Engand I				
for cows or sheep. Sameel Booth. Sameon Newton. Connecticut. Dec. 22, 18 Bells for fire engines. James P. Parke. Philadelphia, Pa. Dec. 19, 18 Bells, improvement in hotel. Jason Barton. Cairo, N. Y. Mar. 18, 18 Bells, improvement in hotel. Judson. Bells, moulding and casting. Blowspie, for blast furnaces. John Barker. John Barker. Bells moulding and casting. Benjamin Hanks. Albany, N. Y. Mar. 18, 18 Benjamin Hanks. Albany, N. Y. Nov. 4, 18 Benjamin Hanks. Albany, N. Y. Nov. 17, 18 Albany, N. Y. Nov. 17, 18 Albany, N. Y. Nov. 17, 18 Bells, improvement in hotel. John Barker. Baltimore, Md. Oct. 28, 18 Bellimore, Md. Oct. 28, 19 Bells, harding and manufacturing of the cards of coperating. Albert Bingham Boston, Mass. Jan. 5, 18 Boston, Mass. John Rewey. Berkshire, N. Y. May 8, 18 Boston, Mass. July 9, 18 Bells, nachine for cutting off the cards of coulde speeders. John Brown and George Smith. Philadelphia, Pa. Sept. 26, 18 Boston, Mass. July 9, 18 Boston, Mass. June 27, 18 Brads, cutting and manufacturing iron plates. Brads,			0 404, 211 27111111	
Bells for cows. Bells for fee negines. Bells and fire engines. Bells, hanging.—See Class 17. Bells, hanging.—See Class 17. Bells, moulding and casting. Bells, moulding and casting. Bells, moulding and casting. Bells moulding and casting. Benjamin Hanks. Albany, N. Y. Mov. 4, 18 Albany, N. Y. Mov. 4, 19 March 3, 19 March 3, 19 Beltimore, Md. Mar. 18, 19 Beltimore, Md. Mar. 24, 19 New York. May 17, 19 March 3, 19 Beltimore, Md. Mar. 18, 19 Beltimore, Md. Mar. 18, 19 Beltimore, Md. Mar. 24, 19 New York. May 10, 19 Berkshire, N. Y. Mav. 15, 19 Berkshire, N. Y		Samuel Booth	Berlin, Conn	June 1, 1632
Bells for fire engines				
Bells, hanging.—See Class 17. Bells for horses. Bells in moulding and casting. Bells, moulding and casting. Bells moulding and casting. Bells with moulding and casting. Bells with moulding and casting. Bells with moulding and casting. Bit, spiral, for cutting screws. Blowing and striking, mode of. L. Hoyt and E. Pierce. Blow-pipe, for blast furnaces. Bolts, casting, for ships building. Bolts, copper, uniting. Griffith Morgan. Onancock, Va. May 2, 18 Bolts and bars, forging. Bolts and pars, forging. Bolts and nars, forging. Bolts in door-fastenings, mode of operating. Bolts in door-fastenings, mode of finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts trimming the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Bolts and nuts, and squaring and finishing the heads of. Brads, cutting and manufacturing iron plates. Brand, for four barrels. B				Dec. 19, 1806
Bells for horses			,,	
Bells, improvement in hotel. Bells, moulding and casting. Bells, moulding and casting. Bells, moulding and casting. Bells, moulding and casting. Bells, spiral, for cutting screws. Blowing and striking, mode of . Blowing and striking, mode of . Bolts, casting for ships. John Barker. Baltimore, Md. Mar. 3, 18 Bellts, accoper, uniting. Griffith Morgan. Joseph Share. Baltimore, Md. Oct. 28, 14 Donancock, Va. May 2, 18 Bellts and bars, forging. Clement Renigin. Pennsylvania. Nov. 17, 17 George Smith. Bolts and ober-fastenings, mode of operating. Bolts, machine for cutting off the ends of . Bolts and nuts, and squaring and finishing the heads of . Bolts and spike, drawing. Bolt rack, for doors. Bolt rack, for doors. Bolts and spike, drawing. Bolts, trimming the heads of . Bolts and spike, drawing. Bolts rimming the heads of . Bolts produce, —See Class 22. Boring the inside groove, fliers for double speeders. John Brews. John Brewey. Berkshire, N. Y. May 8, 14 Bolts, casting metallic Brads, cutting and manufacturing iron plates. Brand, for flour barrels. Brand. Brand.		Jason Barton	Cairo N. Y	Mar. 18, 1834
Bells, moulding and casting. Bit, spiral, for cutting screws. Bit, spiral, for cutting screws. Blowriper, for blast furnaces. Blowriper, for blast furnaces. Bolts, capper, for ships. Bolts, copper, uniting. George Page. New Hampshire. Nov. 17, 18 Bells, moulding and striking, mode of blowriper, for blast furnaces. Bolts, copper, for ships. Bolts, copper, for ships. Bolts, copper, for ship building. Bolts, copper, for ship building. Bolts and bars, forging. George Page. New Hampshire. Nov. 17, 18 Baltimore, Md. Mar. 3, 18 Baltimore, Md. Oct. 28, 16 George Page. New York. March 3, 18 Baltimore, Md. Oct. 28, 16 Onancock, Va. Mar. 15, 18 Bolts and bars, forging. Clement Renigin. Pennsylvania. Nov. 17, 19 Bolts and bars, forging. Clement Renigin. Pennsylvania. Nov. 17, 19 Bolts and houts, and squaring and finishing the heads of the ends				
Bells, moulding and casting. Benjamin Hanks. George Page. Serigal, for cutting screws. Blowing and striking, mode of L. Hoyt and E. Pierce Bolts, capper, for blast furnaces. Bolts, copper, for ship building. Bolts, copper, uniting. Bolts, copper, for ship building. Bolts and bars, forging. Clement Rentgin. Clement Rentgin. Clement Rentgin. Pennsylvania. Nov. 17, 17 Bolts, door and window. Bolt in door-fastenings, mode of operating. Bolts and nuts, and squaring and finishing the heads of Bolts and spike, drawing. Bolts peeders. Boxes for pullies, casting metallic Brads, cutting. Brads, cutting. Brads, cutting and manufacturing iron plates. Brads, cutting and manufacturing iron plates. Brads, and sprig machine. Brads, cutting and manufacturing iron plates. Brand, for flour barrels. Brackles. Buckles. Julius W. Hatch. Benjamin Hanks. Ablert Bingham. Belliamore, Md. Mar. 3, 18 Baltimore, Md. Mar. 3, 18 Baltimore, Md. Mar. 3, 19 New York. Mar. 15, 18 New York. May 2, 18 Bolts and outs, Mass. June 27, 18 Brand, cutting and manufacturing iron plates. Brand, for flour barrels. Buckles, mechanical spring. June 28, 18 June 27, 18 June 27, 18 June 28, 18 June 27, 18 June 28, 18 June 28, 18 June 27, 18 June 28, 18 J			Rochester N. V.	Oct. 17, 1846
Bit, spiral, for cutting screws. George Page. New Hampshire. Nov. 17, 18 Blowing and striking, mode of. L. Hoyt and E. Pierce Poultney, N. Y. March 3, 18 Blots, copper, for blast furnaces. John Barker. Baltimore, Md. Oct. 23, 18 Bolts, copper, uniting. Griffith Morgan. Onancock, Va. Mar. 15, 18 Clement Rentgin. Pennsylvania. Nov. 17, 17 Bolts, copper, for ship building. Berg and Ivers. Clement Rentgin. Pennsylvania. Nov. 17, 17 Bolts, and bars, forging. George Smith. Pennsylvania. Nov. 17, 17 Bolts, machine for cutting off the ends of operating. Albert Bingham Boston, Mass. Jan. 5, 18 Berkshire, N. Y. Bolts and nuts, and squaring and finishing the heads of Bolts and spike, drawing. Shots and spike, drawing. Sho	Bells, moulding and casting.			
Blowing and striking, mode of L. Hoyt and E. Pierce Blow-pipe, for blast furnaces. John Barker. Baltimore, Md. Mar. 3, 14 Bolts, casting, for ships John Barker. Baltimore, Md. Oct. 28, 16 Bolts, copper, tor ship building. Berg and Ivers. New York. May 2, 18 Bolts, door and window. George Smith. Bolts and bars, forging. Clement Rentgin. George Smith. Bolts and sundamental polit in door-fastenings, mode of operating. Albert Bingham. Boston, Mass. Jan. 5, 18 Bolts and nuts, and squaring and finishing the heads of Borbi-lace.—See Class 22. Boring the inside groove, fliers for double speeders. James S. Brown. Brads, cutting. Brads, cutting. Set Boyden, jr. Brads, cutting and manufacturing iron plates. Brads, cutting, revolving. Brads, and sprig machine. Brads, and sprig machine. Brads, and sprig machine. Brads, and tack machine S. B. Hawkins. Brand, for flour barrels. Semuel Rogers and T. Blanchard. Blackles, mechanical spring. Julius W. Hatch. Buckles.—See Class 21. Buckles.—See Class 22. Buckles and clasps. William Church. Clitzen Relations, New York. Mass. Buckles and clasps. William Church. Clitzen Relations, New York. Mass. Buckles and clasps. William Church. Clitzen Relations, New York. Mass. Buckles and clasps. William Church. Clitzen Relations, New York. Mass. Date 29, 14 March 21,				
Blow-pipe, for blast furnaces. John Barker. Baltimore, Md. Mar. 3, 14 Bolts, casting, for ships. Joseph Share. Baltimore, Md. Oct. 28, 14 Bolts, copper, uniting. Griffith Morgan. New York. May 2, 14 Bolts and bars, forging. Clement Rentgin. Pennsylvania. Nov. 17, 17 Bolts, door and window. George Smith. Philadelphia, Pa. Dec. 18, 16 operating. Dec. 18, 16 Bolt in door-fastenings, mode of operating. Bolts and nuts, and squaring and finishing the heads of . Bolts and spike, drawing.			Poultney N Y	
Bolts, casting, for ships				
Bolts, copper, uniting				
Bolts, copper, for ship building. Bolts and bars, forging. Bolts and bars, forging. Clement Rengin. George Smith. Bolt in door-fastenings, mode of operating. Bolts and or and window. Bolt in door-fastenings, mode of operating. Bolts and nuts, and squaring and finishing the heads of. Bolts and spike, drawing. Bolts and spike heads of. Bolts and spike, drawing. Bolts and spike, dra				
Bolts and bars, forging				May 15 1994
Bolts, door and window				Nov 17 1706
Bolt in door-fastenings, mode of operating				
Albert Bingham		George Simul.	r maucipma, ra	Doc. 10, 1993
Bolts, machine for cutting off the ends of		Albert Ringham	Roston Mass	Ton 5 1944
Bolts and nuts, and squaring and finishing the heads of* Bolts and spike, drawing Brown and Geo. W. Robinson Providence, R. I Bouther Bouthet, Mass Bosouthington, Conn Bosoutha	Role machine for cutting off the	mour binguen	Doscon, Intame	Jan. 0, 1043
Bolts and nuts, and squaring and finishing the heads of bolts and spike, drawing. Boutlet, Mass. Bolt and Ruge. Nantucket, Mass. New York. Bolts and sp		John Rewey	Rerkshire N V	May 8 1811
finishing the heads of bolts and spike, drawing Bolts and spike, drawing Bolt rack, for doors John Brown and Geo. W. Robinson Portsmouth, Va. July 2, 16 John Brown and Geo. W. Robinson Bolts, trimming the heads of Micah Rugg Southington, Conn Mag. 31, 16 Bosmb-lance.—See Class 22. Boring the inside groove, fiers for double speeders July 9, 16 Jonathan Ellis Seth Boyden, jr. Brads, cutting Jonathan Ellis Seth Boyden, jr. Brads, cutting and manufacturing iron plates Edmund Gammon Asa B. Woods and Eb. Talbot, jr. Gudley Jenkins Plymouth co., Mass May 16, 16 Barnes, G. Hill, and S. B. Hawkins Ashtabula, Ohio Feb. 13, 16 Barnes, G. Hill, and S. B. Hawkins Ashtabula, Ohio Feb. 25, 16 Julius W. Hatch Buckles See Class 21. Buckles See Class 21. Buckles Julius W. Hatch Buckles Julius W. Hatch Buckles Henry Lawrence William Church Citizen United States, nowin Birmingham, England Feb. 16, 16 Button, plate turn, for fastening Philos, Eli W., and		John Rowey	Del asimie, IV. I	Many O, 1023
Bolts and spike, drawing Bolt rack, for doors Bolts, trimming the heads of Bomb-lance.—See Class 22. Boring the inside groove, filers for double speeders Boxes for pullies, casting metallic Brads, cutting Brads, cutting Brads, cutting and manufacturing iron plates Brads, and sprig machine Brads, and tack machine Brand Brand, for flour barrels Br	finishing the heads of	John Rellemene	Philadelphia Pa	Sent 95 1930
Bolt rack, for doors				- ^ ^ ^ ^
Bolts, trimming the heads of Bomb-lance.—See Class 22. Boring the inside groove, fliers for double speeders James S. Brown Pawtucket, Mass July 9, 16 Brads, cutting Jonathan Ellis Feb. 10, 16 Brads, cutting and manufacturing iron plates Brads, and sprig machine Brads, and tack machine Brand, for flour barrels Buckles, mechanical spring July 9, 16 Brands Buckles Buck			Fortamouni, va	July 2, 1000
Bolts, trimming the heads of	Doit fack, for doors		Descridence D I	May 04 1906
Bomb-lance.—See Class 22. Boring the inside groove, fliers for double speeders	Rolto trimming the heads of			
Boring the inside groove, fliers for double speeders. James S. Brown. James S. Brown. Pawtucket, Mass. July 9, 16 Boxes for pullies, casting metallic Brads, cutting. Brads, cutting. Brads, cutting and manufacturing iron plates. Brads, cutting, revolving. Brads, and sprig machine. Brads, and sprig machine. Brads, and tack machine. Brand. Brand. Brand. Brand, for flour barrels. Bra		mican reage	Southingwii, Conn	Aug. 51, 1042
double speeders		·		
Boxes for pullies, casting metallic Brads, cutting. Brads, cutting. Brads, cutting. Brads, cutting. Brads, cutting and manufacturing iron plates. Brads, and sprig machine. Brads, and tack machine. Brand, for flour barrels. Buckles, cutting and finishing. Buckles, cutting and finishing. Buckles beth Boyden, jr. Buckles. Brand, cutting, revolving. Buckles, cutting, revolving. Brand, for flour barrels. Buckles, cutting and finishing. Buckles. Buckl		Tomas & Duame	Danitualist Mass	T 0 1020
Brads, cutting			Nontucket, Mass	
Brads, cutting			Ivantucket, Mass	E-b 10 1607
Brads, cutting and manufacturing iron plates. Brads, cutting, revolving. Brads, and sprig machine. Brads, and tack machine. Brand, for flour barrels. B			Dogton Many	Tune 07 1915
Brads, cutting and manufacturing iron plates				
iron plates	Draus, cutting	Henry Waterman	New Tork	Jan. 10, 1040
Brads, and sprig machine	braus, cutting and manufacturing	Edmund Commen	Canham Maint	0-4 00 1000
Brads, and sprig machine. Brads, and tack machine. Brand. Brand. Brand, for flour barrels. Boston, Mass. Boston, Mass. Boston, Mass. Boec. 2, 16 New York. May 20, 16 May			Gornam, Maine	Oct. 20, 1830
Brads, and sprig machine	nraus, cutume, revolving		387:d C	T7-L 19 1095
Brand, and tack machine	Dardy and annia machine	Cudles Tenleine		
Brand Blanchard Boston, Mass Oct. 3, 16 Brand, for flour barrels William Ross New Orleans, La Dec. 2, 16 Buckles, cutting and finishing Buckles, mechanical spring John Green New York May 20, 16 Buckles Buckles Buckles Buckles Hudson, N. Y Oct. 12, 16 Buckles Manilus, N. Y Feb. 20, 16 Buckles Manilus, N. Y March 9, 16 Buckles Mentz, N. Y March 9, 16 Buckles Manilus, N. Y March 9	Brads, and sprig machine		Plymouth co., Mass.	May 16, 1817
Brand	brads, and tack machine		D	0 0.1017
Brand, for flour barrels Brand, for flour barrels William Ross New Orleans, La Dec. 2, 18 Dec. 18 D	D		Boston, Mass	Oct. 3, 1817
Brand, for flour barrels	Brand			77 . 05 1005
Brand, for flour barrels			Ashtabula, Unio	Feb. 25, 1835
Buckles, cutting and finishing Buckles, mechanical spring John Green John Green Buckles Buckle			New Orleans, La	Dec. 2, 1825
Buckles, mechanical spring John Green New York May 20, 16 Buckles	Brand, for flour barrels		Newburyport, Mass.	June 28, 1832
Buckles.—See Class 21. Julius W. Hatch.—Manlius, N. Y.—Feb. 20, 18 March 9, 18 March 9, 18 March 9, 18 March 9, 18 March 19, 18	Buckles, cutting and finishing	James Carman	Hudson, N. Y	
Buckles		John Green	New York	May 20, 1807
Buckles		T TTT		
Buckles Henry Lawrence Manlius, N. Y July 13, 16 Buckles and clasps William Church Citizen United States, now in Birmingham, England Feb. 16, 16 Button, plate turn, for fastening Philos, Eli W., and				Feb. 20, 1844
Buckles and clasps		isaac B. Verplank		March 9, 1844
Button, plate turn, for fastening Philos, Eli W., and	Buckles	Henry Lawrence		July 13, 1844
Button, plate turn, for fastening Philos, Eli W., and	Buckles and clasps	William Church		
Button, plate turn, for fastening Philos, Eli W., and	·		nowinBirmingham,	
Button, plate turn, for fastening Philos, Eli W., and	_			Feb. 16, 1849
auphoend and other doors I John A Disks New Haven Com. Man Ot 10		Philos, Eli W., and		
cupboard and other doors. John A. Blake New Haven, Conn Mar. 21, 16	cupboard and other doors.	John A. Blake	New Haven, Conn	Mar. 21, 1843

^{*} Additional improvement, September 10, 1840.

METERNESIME OR DISCOVERSES.	PATR STOGO.	Lacapitates.	WHEN MANUED.
Cabala abain	Projek Tennina	Ware Vork	Ool 99, 1881
Cables, chain	Brastus Bartholomew .	New York, Boston, Mass	May 17, 1896
Cables, chain, &c. See Class 7. Card teeth, cutting Card teeth, elastic steel, fish hooks,	Joshua Lamb	Leicester, Mass	Aug. 1, 1627
Carriage spring.—See Class 10.	Eb. Jenks	Colebrook, Conn	Nov. 13, 1813
Carriage steps	David & E. Z. Little. Charles Gaston Philos Blake, Eli W.	Gettysburg, Pa Williamsport, Pa	Oct. 7, 1846 Jan. 31, 1812
Castors, for bedsteads*	Blake, & J. A. Blake Walter Hunt	New Haven, Conn New York	June 30, 1838
Castings, chilled cylinders & cones Castings, metallic pin for chilling		Pittebugh, Pa	April 22, 1833 Mar. 3, 1836
the interior of	William H. Saunders. John D. Morris	Greensburg, N. Y Kensington, Pa	Nov. 26, 1835 Dec. 2, 1835
Castings, smoothing the oxide and sand on	Bradford Seymour	Utica, N. Y	Dec. 2, 1835
plates, &c., of cast iron	Jordon L. Mott David Leslie	New York New York	
slipping	James Cooper	Augusta county, Va.	June 17, 1823
latches	Albert Bingham James Sellers & Abra-	Boston, Mass	July 17, 1842
Coffins, metallic.—See Class 22 Columns, east iron, &c., for build-	ham L. Pennoek	Philadelphia, Pa	May 25, 1840
ings	Jordan L. Mott Samuel Kern	New YorkStrasburg, Pa	June 11, 1836 July 31, 1846
Copper, alloying, &c	M. Sorel	Paris, France Putnam, Ind	Sept. 17, 1839 Jan. 23, 1846
Copper, sheet, &c., double seaming Gracibles, making	G. R. Moore James Delliba	Philadelphia, Pa Watervliet, N. Y	Sept. 19, 1846 Sep. 26, 1823
Curry-combs, making Curry-comb	Nathaniel C. Sanford. Thomas Wilkinson	Meriden, Conn Cambridge, N. Y	Nov. 3, 1838 Aug. 16, 1844
Curry-comb	William Wheeler Martin N. Armstreng.	West Poultney, Vt. New York	April 26, 1846 Jan. 24, 1842
Catlery, cleaning and polishing Design for door springs Dies for cutting and forming culti-	William Vine Isaac B. Hartwell	New York, N. Y Woodstock, Vt	Feb. 28, 1844 April 10, 1843
vator teeth	David B. Rogers	Stafford, N. Y	Nov. 8, 1845
and of plate-metal	Lucien E. Hicks Benjamin Mead and	Middletown, Conn	June 27, 1840
Dies, founder's, moulding	Giles Richards Eb. Bryant	New London, Conn.	July 2, 1814 Mar. 18, 1818
Dies and taps	Archibald Lement Calvin Washburn	Pittsburgh, Pa Bridgewater, Mass	Jan. 29, 1830 April 18, 1832
Door fastener, mortise	Leonard Foster James Buck	Boston, Mass Bucksport, Maine	Feb. 25, 1881 Sep. 28, 1831
Door fastenings	Jno. C. Palmer	East Haddam, Conn. Princeton, N. J,	Oct. 7, 1845
Door fasteners, mortise latch Door and other knebs, attaching to their collars.	Leonard Foster	Boston, Mass	Aug. 28, 1841
Door knobs, casting	Phillips	Pittsburg, Pa Utica, N. Y	Dec. 19, 1846 Dec. 10, 1846
Door knobs, shanks for	Livingston, Roggan, & Adams	Pittsburg, Pa	•
Door knockers, cast iron, with brass plates	Increase Wilson	-	

^{*} Reissaed July 80, 1845.

		R MARIONIECE.	WEEK MANNEN
INVENTIONS OR DISCOVERIES.	PATEMTERS.	KINDENUE.	
Door plates	I. S. Richardson	Boston, Mass	Oct. 15, 1696
Moor plates	William C. Austin	Greensville, Va	
Door springs	Isaiah Eaton	Boston, Mass	Feb. 20, 189
Door springs, vertical wire		Boston, Mass	
Door springs		W'stC'mb'dge,Mass	Dec. 7, 1837
Door springs		Greenfield, Mass	July 17, 1890
Door, wire springs for	John Codman	Boston, Mass	Aug. 17, 183
Door, springs for shutting		Boston, Mass	Oct. 20, 1837
Door spring	Samuel Sawyer	Boston, Mass	
Dressing iron and other substances		New York, N. Y	
Drilling iron	John H. Currier and Wing H. Taber	Fair Haven, Mass	July 8, 1839
Drilling metallic and other sub- stances		Byron, N. Y	Aug. 29, 1839
Drill or borer, governing the feed of	John B. Grout	Birmingham, Mich.	May 30, 184
Drilling machine	Amos Morgan	Wooster, Ohio	
Drilling machine	R. H. Springsteed	Wooster, Ohio	May 30, 1844 Feb. 20, 1843
Drilling iron, &c., machine for	Amos Morgan	Wooster, Ohio	July 20, 184
Drills for metal	William R. Jones	Granville, N. Y	
Drill-stock, geared	George Page	Keene, N. H	
Drill-stock, screw	Charles Babbitt	Taunton, Mass	
Drums, soldering, straightening factory	•		
Dust, metallic particles, &c., pro-		Wordster, Mass	7 mi. 20, 10m
duced during the operation of	1		
grinding, method of removing	Thaddeus Fairbanks	St Johnshum Vt	May 96 184
C	Inaudous Pairvanta	Bu Johnsbury, VI	161dy 20, 10-s.
Edging, turning the edges of ting	John Woolley	New York	Mar. 16, 183
Edging metal plates for roofing	Daniel A. Dimen	Cincinnati Ohio	A 15 109
houses	Daniel A. Piper	Cincinnati, Ohio	
Edging tin plate, &c	Charles F. Fisher	York, Pa	
Emory, manufacturing Fasteners, shutter	John L. Whetstone &	New Lisbon, N. Y.	
.	P. C. Guion	Cincinnati, Ohio	
Fencing, iron*	Paulus Headle	New York	Feb. 21, 182
Fencing, wire	Samuel F. Dexter	Auburn, N. Y	Aug. 19, 183
Ferules of canes, &c., bottom end			
of, constructing	Jonathan Ball	Buffalo, N. Y	
Fetters for horse	Joseph Watson	New Canaan, Conn.	
Files, cutting	Ernst Gehbe	Northampton co. Pa.	
Files, cutting	Merris B. Belknap	Greenfield, Mass	Jen. 16, 181
Files, cutting	Charles Hesser and		
77°	Amos Paxson	Philadelphia, Pa	April 11, 181
Files, cutting	Morris B. Belknap	Worcester, Mass	June 13, 181
Files, cutting	William T. James	Greenwich, N. Y	Nov. 19, 181
Files, cutting		Butternuts, N. Y	May 28, 181
Files, cutting	Charles & Daniel Platt		
Files, cutting			
Files, cutting	John Hatch	Dedham, Mass	May 1, 181
Files, cutting			
Files, cutting, and rasps	Samuel G. White	Haverhill, Mass	July 11, 181
Files, cutting	Levi Anderson		Nov. 16, 184
Files, machine for cutting			greb. 12, 184
Files maghiners for anting	Richard Flint	Meriden, Conn	July 24, 184
Files, machinery for cutting	Joseph A. Hyde, assig- nee of M.H. Fisher.	Bridgewater Mess	Aug 00 104
Files manufacturing			
Files, manufacturing			
Files, renewing old	A.P. & E. Brittingham		
Filing hand saws			
Fire-proof chest, †	Jesse Delano		Mar. 7, 183
Fire-proof chest			Nov. 12, 183
Fire-proof chest, iron	.] Charles A. Gaylor	LINEW KOPK	. Anni IV. 183
Fire-proof chest,		001	T 100

^{*}Reissued Dec. 18, 1898. † Reissued Aug. 13, 1834. ‡ Raissued April 3, 1835.

MAYENTIONS OR DISCOVERIES.	PAT UNTER I.	residence.	WHEN SHORD.
Fire-proof chest	James Matthews	New York	June 16, 1830
Fire-proof safe	Daniel Harrington	Philadelphia, Pa	Mar. 9, 183
Fire-proof chests and safes, (whole		z zamorpina, z ar c c	
title in Enos Wilder.)	Daniel Fitzgerald	New York	June 1, 1843
Fire-proof safe	Benjamin Sherwood	New York	May 8, 183
Fire-proof safe	Daniel Fitzgerald	Mount Morris, N.Y.	Aug. 15, 183
Flasks and patterns for iron tea-			
RettlesFlat or sad iron, tenon and mortise	David Stewart	Danville, Pa	June 26, 183
attached	William Wilson	Greenfield, Mass	Mar. 27, 183
Forges, and bellows applied thereto Forges, and bellows for black-	Ransom Greene	Brunswick, N. Y	May 31, 183
smiths, &c	John C. Conklin	Peckahill, N. Y	June 19, 183
Forges, backs, and for other fires,	Philo C. Curtis	Tities N V	Mar. 27, 183
Common hooks for from the B		Utica, N. Y	Dec. 15, 183
Forges, backs for fires, &c.*	Asa Graham	Hamilton, N. Y Hamilton, N. Y	Feb. 12, 183
Forges, backs	Frederick Avery Timothy Bush, jr		April 19, 183
Forges, backs		Springhort, N. Y	
Forges, backst	Luke Wilder	Leominster, Mass	Mar. 17, 183 Fab. 13, 189
Forges, backs, blacksmiths	Isaac Sawyer	Hallowell, Maine	Feb. 13, 183
Forges, backs, blacksmiths	James Knickerbacer	Laporte, Ind	Sept. 26, 188
Forge bellows, improvement in Forges, blacksmiths', bellows at-	Jeremiah Darling	Adrian, Mich	May 23, 184
tached to hearth	Charles Foster	Rochester, N. Y	May 11, 184
Forges, blacksmiths', producing			
the blast for.	Sharp	Catherine, N. Y	Aug. 2, 183
Forge, blacksmith	Charles Richardson	Greenfield, N. H	Mar. 12, 183
Forges, blacksmiths'	Frederick A. Stuart	Catharine, N. Y	July 1, 184
Forge, blacksmiths'	James R. Hobbs	Huntsville, Ala	Sept. 15, 184
Forge, bloomery, employed in the		·	•
manufacture of wrought iron Forges and furnaces, apparatus for	Simeon Guilford	Lebanon, Pa	Dec. 27, 184
blowing t	James A. Stewart	Springfield, Tenn	Aug. 18, 184
Forges and furnaces, water-backs for	William McEwen	Norristown, Pa	Nov. 10, 184
Forge, and other furnaces, applica-		2.01.2.0, 2	
tion of air.	Robinson	Ashtabula, Ohio	Sept. 26, 18
Forge, hearth, hot air	L. V. Badger and R.	Libration, Oniotti	30p. 20, 20
	Walker	Portsmouth, N. H.	Nov. 30, 183
Forge, or heating wind of the			1 4 11 10 100
blacksmith's fires	John Howe	Alna, Maine	April 16, 18
Forge, hollow fire	Samuel Collins	Springfield, Mass	Sept. 11, 18
Forge, hot-blast	Paul A. Sabbaton	Reading, Pa	Feb. 24, 184
Forge, portable	Christian V. Queen	Peekskill, N. Y	Nov. 18, 184
Forge, smith's	Amos Bissey	Point Pleasant, Pa	June 23, 18
Forks, manufacture of	Samuel H. Gilman	Boston, Mass	Oct. 16, 184
Furnace, blacksmiths', burning	Edward Nichols	Hampden, Conn)	A 01 105
anthracite.	and James Augur	New Haven, Conn	Aug. 21, 18
Furnace, blast	Stephen Chubbuck and Jedediah Briggs	Wareham, Mass	Jan. 9, 18
Furnace, blast	John Steece		
Furnace, blast		Lawrence co., Ohio.	
Furnace, blast.	Benjamin Kugler	Baltimore, Md	April 18, 18
Furnace, blast	Benjamin Kugler		June 2, 18
	John Barker	Baltimore, Md	
Furnace, blast, and cupola	John Patterson	Warwick, N. Y	June 13, 18
Furnace, blast, draught of			
Furnace, blast, hearth of			
Furnace, blast, heating	Charles C. Alger	Stockbridge, Mass.	
Furnace, blast, smelting iron ore.		Connellsville, Pa	
Furnace, blast, steam application	Cotton Foss	Madison, Ohio	Aug. 2, 18
		1	
		}	1
Furnace, combination of, manufac- turing wrought iron directly from the ore		Roundout N Y	Dec. 23, 19

Relevance Policenary 88, 1888. † Add'l imp't, Aug. 23, 1898. † Antodascé July 1, 1849.

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mylaistons or discovamen.	PATHNTHIN.	remember.	WHEN MOUND.
Furnace, cupola	Henry Wassi	New York	Dec. 31, 1881
Furnace, flues of	Jeremiah Clute and Ja-		
-	cob Seabury	Cohoes, N. Y	
Famace, &c., heating*	C. E. Detmold, of New		
	York, assignee of W.	dom of Würtem-	
	von Faber du Faur.	berg.	Europe May 12, 1840.
Furnace, and forge back	Lewis Gillet	Copenhagen, N. Y	Aug. 91, 1823
Furnace, glass See Class 15.			
Furnace, hatters See Class 3.			
Furnace, heating bar iron	Henry Burden	Troy, N. Y	Oct. 14, 1834
Furnace, heating iron hoops	Garret Post		May 22, 1896
Furnace, heating tire	Dudley Marvin	Canandaigua, N. Y.	Jan. 21, 1831
Furnace for, and process in, mak-		/D 37 37	M 10 1040
ing malleable iron	J. F. Winslow	Tray, N. Y	Mar. 16, 1846
Purnace	A. Ellicott and John	Paltimore Md	May 16, 1846
Furnace, heating the blast of	McCrone William H. Phillips	Baltimore, Md Brooklyn, N. Y	Aug. 28, 1840
Furnace, heating, for all kinds of		Diousyn, 24. I	214g. 20, 1014
metallurgic operations	Christian E. Detmold.	New York, N. Y	July 15, 1843
Furnace for heating scythes	William H. Passmore		Oct. 7, 1840
Furnace, hot air See Class 5.			1, 2000
Furnace, hot air, and cupola	L. V. Badger	Portsmouth, N. H	Dec. 2, 1835
Furnace, iron	Benjamin B. Howell	Philadelphia, Pa	Oct. 11, 1828
Furnace, manufacture of iron	Isaac C. Bryant		Dec. 31, 1838
Furnace, portable, for casting	Joseph Share		Mar. 30, 1813
Furnace, and pots, for melting	Cyrus Gridley	Waterbury, Conn	Mar. 17, 1635
Furnace, puddling manufacturing	5	NT 17l.	A OF 1040
From with anthracite coali	Thomas Cooper	New York	Aug. 25, 1840
Furnace, puddling and refining iron		New York, N. Y	Aug. 2, 1842
Furnace, refining iron	of John S. Gustin John C. McManaway	Scioto, Ohio	
Furnace, refining iron	James Sharp	Liverpool, Pa	June 93, 1838
Furnace, refining and melting me-	T. and Jos. Barnhurst	poo.,	
tals.	and William Walker	Philadelphia, Pa	May 14, 1814
Furnace, &c., reverberatory	Claude S. Quilliard	Roundout, N. Y	Jan. 8, 1842
Furnace, reverberatory, for smalt-	Wm. Green, assignee		
ing or puddling iron.	of S. Broadmeadow	Woodbridge, N. J.	
Furnace, revolving fan-wheel for	Frederick P. Dimpfel.	New York, N. Y	
Furnace, for shear steel	Simeon Broadmeadow	New York	April 5, 1637
Furnace, smelting lead	A. R. Drummond and N. G. W. Fuller	Galena III	May 30, 1838
Furnace, smelting ore	Arundins Tiers	Galena, Ill Kensington, Pa	Apr. 11, 1836
Furnace, smelting ore	George E. Sellers	Philadelphia, Pa	Apr. 20, 1837
Furnace, smelting ore	Simeon Broadmeadow	New York	Apr. 5, 1837
Furnace, smelting ore	J. Baughman, J. Gui-	Herford township,	•
	teau, and H. High.	Mauch-Chunk,Pa.	May 21, 1838
Furnace, smelting ore and burning			
lime	John Owings	Adams county, Pa.	May 29, 1835
Furnace, smelting	Squire M. Fales	Baltimore, Md Pottsville, Pa	May 16, 1846
Furnace, smelting iron ore	Augustus Roth	Pottsville, Pa	Oct. 31, 1839
Furnace, for smelting iron	Leman Bradley Frederick C. Kropff	Bodford county Do	Ten 17 1044
Furnace, smelting, constructing	Inc. Van Reed Hunter	Rockland Pa	Tuly 92 1849
Furnace, smelting iron Furnace, tuyeres for	Jac. Van Reed Hunter W. W. Snow	Oneonta, N. Y	May 20, 1949
Furnace, tuyeres for	Richard Brewer	Plymouth, Ohio	Nov. 21. 1842
Furnace, tuyeres for	Reuben A. Goodrich	Milford, N. Y	Feb. 24, 1848
Furnace, tuyeres for	Lorenzo D. Brown	Lee, Mass	
Furnace, tuyeres for	Lewis E. Clow	Mount Pelico, Vt	Sept. 23, 1848
Furnace, tuyeres for	Zadok H. Mann	Lowell, Mass	Dec. 15, 1848
Gauge, for trip hammers	Benjamin Richardson.	Western, Mass	May 17, 1814
Gold, amalgam mill for separating	7	NY. 37 3	D 00 100-
from ore	Joseph Curtis	Mem Tolk	Dec. 38, 1835
•		1	

^{*} Reissued 23d Jan., 1845. † Reissued Enb. 20, 1845. ‡ Reissued March 18, 1841. ‡ Antedated Dec. 2, 1843.

MARKELIONS OF DESCRIPTIONS	PATENTERS.	1.00000000	WELSH MANUED.
Gold, amalgam mill for separating			
from ore	Joseph Curtis	New York	Dec. 28, 1835
from ore	Joseph Curtis	New York	Dec. 28, 1835
Gold, eleaner	James Bogardus	New York	April 7, 1834
Gold, extracting from ore	Jas. L. Montaudevert	Charlotte, N. C	April 30, 1831
Gold, extracting from ore	Nathaniel Bosworth	Philadelphia, Pa	
Gold machine, called railway car.	Oscar Willis	Burke county, N. C.	Dec. 21, 1831
Gold ores and alluvial auriferous earth, washing	John Powell	Salisbury, N. C	-
Gold ores and alluvial soils, wash-	V. D. Rivafinoli, Chas.	Salboury, 11. C	
ing.	Harsleben, and Wil-	London Pagland	Nov 1 199
Gold and silver, separating from	liam Davis	London, England	1101. 1, 103
earth*	William H. Folger	Charlotte, N. C	Feb. 13, 1826
Gold, separating and grinding	Samuel Whistler and		
•	James Smith	Rockingham co., Va.	Jan. 16, 1830
Gold, separating	Roswell King	McIntosh co., Ga	Oct. 1, 1830
Gold, separating from earths	Daniel Jones	Granville, N. C	
Gold, separating from earths	Frederick D. Sanno	Philadelphia, Pa	
Gold, separating from earths	Green B. Palmer	Pendleton, N. C	April 93, 183
Gold, separating and grinding flint			
rock	Adam Carson	Kingston, Tenn	Jan. 29, 183
paratus employed in	Thomas Seay	Columbia, Ga	May 4, 184
Gold, separating from soil	John Dobson	Burke county, N. C.	Aug. 21, 183
Gold, swinging riddle	Oscar Willis	Morgantown, N. C	Sept. 5, 1839
Gold, washer	Roswell King	McIntoch co., Ga	Oct. 1, 183
Gold, washing and separating	Richard Lee	Ervinsville, N. C	July 8, 182
Gold, washing and separating	William H. Folger	Charlotte, N. C	Sept. 10, 182
Gold, washing and separating allu-	ı	•	• •
Vial	Thomas W. A. Sumter	Poplar Grove, N. C.	May 22, 183
Gold, washing from gravel and sand	Peter Summey	Lincoln, N. C	Jan. 30, 183
Gold, washing from gravel and sand Gold, washing from sand and		Rutherfordtown,N.C	Oct. 5, 183
pounded ore	Christopher Bechtler	Rutherfordtown, N.C.	Oct. 5, 183
Gold, washing	Thomas Rives, sen	Hall county, Ga	Feb. 3, 183
Gold, washing	William Davis	Hall county, Ga Fauquier county, Va	Nov. 22, 183
Gold, washing	Peter L. Dauvergne	Clarksville, Ga	Sept. 17, 184
Gold, washing	Henry Bourne	Elberton, Ga	Sept. 14, 184
Gauges, making	M. M. Brainard	G. Barrington, Mass.	
Grinding edge tools	F. Marby, for Geo. A.	,	
	Madeira	Chambersburg, Pa	April 19, 183
Grinding ores into powder		Baltimore, Md	Oct. 27, 181
Grinding tools, hammers	Daniel Welsh	Canaan, N. H	Jan. 10, 183
Guards to cap-spinners	William Cundell	Patterson, N. J	Nov. 10, 184
Hammer, arm forge		Polerame, Pa	June 14, 183
Hammer, cast iron	Thomas Jones		
Hammer, hanging forge			Jan. 21, 182
Hammer, hatchet	Joel Howe	Princeton, Mass	. July 8, 183
Hammers and hatchets, socket of.		Canaen, N. H	July 17, 183
Hammer, for nails	Charles A. Strong		March 3, 189
Hammer, spikes, gimblets, &c.,			,
sharpening	Ezra L'Hommedieu	Saybrook, Conn	April 28, 183
Hammer, stone	Galen H. Pierce	Middlebury, Mass.	
Hammer, swedge spring	William Field	N. Providence, R. I.	Sept. 14, 183
Hammer, working forge	George Escol Sellers.	Cincinnati, Ohio	Jan. 10, 184
Hammers	Solomon Anderson	Garretsville, N. Y.	Aug. 20, 184
Harpoons.—See Class 22.		Carontino, M. I	-Lug. 40, 109
	Joseph Lauback	Middletown Pa	Nov 10 194
Hearth, blacksmith or forge		Middletown, Pa Massachusetts	Tune 10 100
Hinges	David Morse		June 10, 100
Hinges, butt	Hy. P. Anderson and	Waterford N V	Tune 10 100
	Josiah Sawyer	Waterford, N. Y	12 trans 12, 193

^{*} Reisened Nov. 18, 1889.



inventions or discounting.	PATENTERA.	ARMHENCE.	when imped.
Hinges, butt	Darwin Ellis	Attleborough, Mass.	Ang. 8, 1834
Hinges, butt	Welcome Whittaker	Troy, N. Y	Aug. 8, 1834 Mar. 12, 1836
Hinges, butt	Charles R. Macey	Hyde Park, N. Y	Oct. 5, 1960
Minges, butt*	Jonas Rouse	Troy, N. Y.	May 17, 1836
Hinges, or butt, double centred	100000000000000000000000000000000000000	210, 21. 21	,,
joints	Egbert Hedge	Hartford, Ct	Nov. 23, 1837
Hinges, butt, mould for cutting	Jonas Kendall, jr	Watertown, Mass	July 21, 1831
Hinges, butt, table	Humphrey Treadwell.		Dec. 31, 1833
Hinges, butt blanks, machinery	Trumpiney Treatwell.	Hyderain, Iv. I	200. 01, 1000
for trimming	Cyrus Kenney	Troy, N. Y	July 26, 1844
Hinges, butt, casting	Richard W. Belson	Danville, Pa	July 26, 1843
Hinges, butt, forming the eyes of.			July 20, 1040
ringes, but, forming the eyes or.	of W. Whittaker	Troy, N. Y	July 8, 18 43
Hinges or butts, for hanging and fastening window blinds and	or w. windaker	Albany, IV. I	
shutters	Augustus C. Palmer	Utica, N. Y	Jan. 27, 1843
Hinges, butt, moulds for	Benj'n F. Harley & J.		_
	D. Morris	Philadelphia, Pa	Feb. 12, 1844
Hinges, butt, planing and dress-			
ing the knuckles on their inner			
sides	Gage Stickney	Blackwoodtown, N.J	Dec. 19, 1844
Hinges, butt, wrought iron, bend-		2.000 # 000 # 11, 11.5	10, 1011
ing the knuckles of		Troy, N. Y	Aug. 23, 1844
Hinges, butt, wrought iron, ma-	Cyrus Itemicy	1109, 14. 1	mag. 20, 1022
	Curus Kanney	Twor N V	Aug 7 1944
chinery for making	Cyrus Kenney	Troy, N. Y	Aug. 7, 1844
Hinges, butt, &c., casting of iron,		Dhiladalahia Da	Oct 0 1941
brass, &c.	of Thos. Shepherd	Philadelphia, Pa	Oct. 9, 1841
Hinges, cast	George A. Rodgers	Newburyport, Mass	
Hinges, cast iron	Cyrus Alger	Boston, Mass	May 18, 1814
Hinges, casting	David Stuart and Chs.	D	Ton 90 1049
Uinana acating an to their swint	C. Lloyd	Danville, Pa	Jan. 20, 1843
Hinges, casting on to their axist.	Samuel Wilkes	Darleston, Gt. Britain	
Hinges, elliptical	Mark & R. Reeve	Burlington, N. J	Oct. 31, 1812
Hinges for fastening blinds and			T1 10 1011
shutters	Robert B. Varden	Baltimore, Md	Feb. 12, 1845
Hinges, flask for moulding	Thomas Loring	Gloucester, N. J	Feb. 7, 1844
Hinges, friction roller	John Bailey, jr	Plymouth, Mass	May 16, 1808
Hinges, helical spring joint	D. A. Hoyt & P. W.		
	Bulkeley	Danbury, Ct	April 28, 1838
Hinges of piano fortes	J. Chickering, ass'nee		_
	of R. Porter	Boston, Mass	June 3, 1843
Hinges and tubes	William Shaw	Buffalo, N. Y	Oct. 22, 1835
Hinges, window blind, and fas-			•
tenings	William Baker	Utica, N. Y	Sept. 17, 1842
Hoes, manufacturing	Isaac Hinman	Hamden, Ct	April 22, 1835
Hoe necks, swages, dies, &c., for			,
manufacturing	Nathan Brand	Leonardsville, N. Y.	April 1, 1845
Hone, metallic	John Houston	Williamsburg, Va	May 4, 1805
Hooks and eyes	James Stewart	Boston, Mass	July 20, 1831
Hooks and eyes, for fastening		Dobbon, Industriction	- wy 20, 1001
garments	Charles Atwood	Derby, Ct	Feb. 24, 1843
Hooks for fishing, connecting		Philadelphia, Pa	July 28, 1846
	Engelbrecht & Skiff	I madeipma, I a	July 20, 1040
Horse shoes, chain links, &c., machine for forming.	Thos. F. Winslow &	T-on N V	Aug 11 1049
	Thos. Osgood	Troy, N. Y	Range 11, 1043
Horse shoes, machiners for making	Henry Burden	T-on N V	Sept. 14, 1043
Horse shoes, machinery for mak'g	William Gibson	110y, 14. I	Dept. 21, 1043
Horse shoes, for the relief & cure	Daniel Harrer	Alton III	A
of hoof-bound horses	Daniel Homer	Alton, Ill	April 16, 1842
ron, bending for steam boilers	Calvin Post	Springport, N. Y	Mar. 11, 1828
ron, borings, drillings, &c., in			
furnaces	Maynadier Mason	Georgetown, D. C.	Nov. 8, 1831
ron, carbonating and smelting	Asa Whitney	Southfield, N. Y	July 17, 1837
ron, casting	William Hancock	• • • • • • • • • • • • • • • • • • • •	Feb. 26, 1799
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* Reissued Angust	9. 1845	tedated Dec. 10, 1940	

^{*} Reissued August 9, 1845.

INVENTIONS OR DISCOVERIES.	PARMITEE.	rendrice.	WHEN INSIGED.
Inch cost uniting with steel or			
Iron, cast, uniting with steel or wrought iron	A. Mallory & C. Miles Edmund P. Morewood		Aug. 1, 1831
and other metals. Iron, cutting, punching, & slitting		New York Norwalk, Ohio	Sept. 17, 1844 April 6, 1833
Iron, &c., forging.—See Striker. Iron, &c., forging, stamping, and cutting; machinery operated by	James Nasmith, ass'or to Merrick & Town.		June 9th, '42 England; Apr
steam.*			10, '43, Ame- rica.
Iron, hoop, straightening Iron, hoop and sheet	Benjamin Seymour Jeremiah H. Pierson	Massachusetts New York	June 26, 1797 Dec. 24, 1807
Iron, malleable	B. B. Howell Thomas C. Lewis	Philadelphia, Pa Pittsburg, Pa	Nov. 6, 1828 Oct. 1, 1830
Iron, malleable, cast	Seth Boyden	Newark, N. J	Mar. 9, 1831 April 6, 1831
Iron, malleable, cast Iron, manufacturing	Seth Boyden James Rutland	Newark, N. J Philadelphia, Pa	Nov. 12, 1807
Iron, manufacturing Iron, manufacturing	Norman Callender George Crane	Cumberland co., Pa. London, England	Dec. 14, 1832 Nov. 29, 1838
Iron, puddling and heating	William Jones	Haverstraw, N. Y Reesville, N. Y	Dec. 16, 1833 July 18, 1832
Iron, ore, separatingIron, ore, smelting	Joseph Goulding Thomas R. Ridgway.	Pottsville, Pa	Dec. 17, 1834
Iron, ore, smelting	Joseph Lyon Loseph Richards	Pottaville, Pa Philadelphia, Pa	July 31, 1837 Dec. 10, 1838
Iron ores, art of smelting, and in certain furnaces applicable there- to	Charles Sanderson	Sheffield, England	Feb. 9, 1841
Iron or other ores, process of re- ducing to the metallic state, by	_		
Iron, &c., punching holes in, ma- chine for.		Madison, Ohio	Dec. 7, 1844
Iron, sheet, manufacturing	J. Wood, sen., John Wood, and Wm. B. Wood.		May 8, 1843 Oct. 12, 1845
Iron, sheet, manufacturing	Simeon Guilford	Lebanon, Pa Baltimore, Md	Oct. 22, 1842 June 1, 1843
Iron, sheet or plate, bending Iron, slitting	John Watchman Jesse Reed	Marshfield, Mass	April 21, 1825
Iron, softening, cast or crude Iron, splaying or flaring	A. Scott & A. Selden. Noah Sutton	Winchester, N. H New York	Nov. 8, 1814 April 28, 1825
Iron and steel, by anthracite coal.	F. W. Geissenhainer . William P. Boyden	New York New York	Dec. 19, 1833 June 11, 1836
Iron and steel, making Iron and steel, rolling	Rufus W. Bangs & S.		
Iron and steel, process of manu-	D. Walbridge Thos. Southall and C.	Bennington, Vt Kidderminster, Eng.	Dec. 31, 1833 Feb. 8, 1844
facturing.	Crudgington.		England; Sep. 14, 1844, U. S. A.
Iron, &c., washing ores Iron, wrought, from the ore, mode	Frederick Fredly	Logan township, Pa	
of obtaining	S. Broadmeadow Lemuel Hedge	New York Hartford, Ct	May 30, 1844 April 29, 1837
closing and opening	David Evans John Glenn	Philadelphia, Pa	
Knife, saw	Lorenzo Graham	Champaign co., O Paris, N. Y New York	
Knife, sharpener	Isaiah Jennings William J. Dunn	New York New York	Aug. 18, 1829
guard	Walter Hunt Philip Cornell	New York Brutus, N. Y	
Knives and forks, table	George Ropes		May 10, 1838
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INVENTIONS OR DISCOVERIES.	PATENTEES.	amenence.	WHEN INSTED.
Knives and forks, cleaning and			
polishing	Martin N. Armstrong.	New York	Sept. 14, 1843
Knives, &c., machine for polishing	William Vine	New York, N. Y	
Knobs, door, to their spindles, me-		n . se	T 20 2045
the of attaching	Enoch Robinson	Boston, Mass	Jan. 10, 18 43
Knob, door, of clay.—See Class 15. Knob, door, of glass	Francis Draper	E. Cambridge, Mass	Sept. 10, 1840
	John G. Hotchkiss, &	New Haven, Ct)	20pt. 10, 1010
Knob, door, of glass, attaching	J. A. Davenport, and	New York	Nov. 16, 1841
necks, &c., to	John A. Quincy	New York)	
Knobs for doors	George O. Russell	Middletown, Ct	Oct. 7, 1845
Knobs, door, drawer, commode,	David Hottman	Baltimore, Md	July 31, 1837
Knobs, glass	Spencer Richards	Cambridge, Mass	Oct. 31, 1831
Knobs, glass	Theodore T. Abbot	Canton, Mass	Nov. 19, 1833
Knobs, glass	Alfred C. Hobbs, and	Boston, Cambridge,	
W2 . 1 . 1	Wm. S. Thompson.	Mass	May 20, 1842
Knobs, glass, commode	Elijah Skinner	Sandwich, N. H	June 11, 1829
Knobs, glass, for doors, &c	Henry Whitney & E. Robinson	Cambridge, Mass	Nov. 4, 1826
Knobs, glass, (improvement on		Cumoringo, Immerit	1, 1000
Bakewell's)	T. B. & J. P. Bakewell	Pittsburgh, Pa	May 14, 1828
Knobs, glass, manufacturing	Deming Jarves	Boston, Mass	Oct. 19, 1830
Knobs, glass, &c., for doors, &c	E. Robinson, F. Drag		04 90 1996
Knobs, glass, &c., for doors, &c*.	per, & J. H. Lord. E. Robinson, F. Dra-	Mass	Oct. 20, 1836
2211000, gamo, coo, 101 coo15, coo	per, & J. H. Lord	Mass	Dec. 2, 1836
Knobs, glass to metallic sockets,			,
attaching.	Robinson	Boston, Mass	Oct. 20, 1837
Knobs, glass, mode of fastening.	William Price	Pittsburgh, Pa	Nov. 14, 1826
Knobs, glass, pressed at one operation	John Robinson	Pittsburgh, Pa	Oct. 6, 1827
Knobs, glass and screws, manu-		I Itabuigu, I a	Oct. 6, 1827
facturing	Deming Jarves	Bosten, Mass	June 13, 1829
Knobs, screw for glass	Orrin Newton		Oct. 17, 1835
Labels for mail bags	Oren S. North	New Britain, Ct	Mar. 13, 1844
Latch, door	Henry Duntze Benj'n M. Bosworth	New Haven, Ct	July 6, 1839 Mar. 6, 1840
Latch, door	Oliver Judd	Warren, R. I Cherry Valley, N.Y	Dec. 10, 1840
Latch, door	James M. Hoggan	New Haven, Ct	Nov. 25, 1841
Latch, door and other locks	E. Robinson & W. Hall		Mar. 3, 1841
Latch of door locks	John P. Sherwood	Sandy Hill, N. Y	May 6, 1841
Latches for doors	Jacob Alrich	Wilmington, Del	May 24, 1845
Zateli, door, right and letter tree	of G. E. Sellers	Cincinnati, Ohio	May 7, 1842
Latch or fastener, for window		,	1, 2020
shutters and blinds	Arundel Hill	Steubenville, Ohio	
Latch, knob for doors, &c	L. & W. Hotchkiss		Mar. 6, 1840
Latch and lock, gravitating, com- bined, for doors.	Miles Greenwood, as'e of G. E. Sellers	Cincinnati, Ohio	May 12, 1842
Latch and lock, for doors	Albert Bingham	Unity, Me	
Latch, mortise	William Coover	Erie, Pa	Feb. 17, 1836
Latch, mortise	Charles S. Gay	Nashua, N. H Portland, Me	Sept. 28, 1837
Latch, mortise.	David N. Ropes		Sept. 28, 1837
Latch, mortise for doors Latches, mortise, door			Nov. 26, 1844 Mar. 7, 1846
Latches, night, improvement in			Mar. 7, 1846
Latches, fastening	Livingston, Roggan, &	,,	1, 1010
	Adams	Pittsburgh, Pa	
Latch, Norfolk		Meriden, Ct	
Latch, Norfolk			May 00 1040
Latch, thumb			Wiar. 20, 1042
	A. Blake	New Haven, Ct	July 21.1840
t Annalasad Sanasan ta	-00 1898	I This is the second of the	,,,

^{*} Antedated September 20, 1836.

INVENTIONS OR DISCOVERIES.	Patentess.	RESIDENCE.	WHEN ISSUED.
Laths, metallic, for fire-proof ceil-			
ings of houses	Palmer Summer	New York, N. Y	April 25, 1844
Lead, tinned, sheet	Thomas Ewbank	New York	May 30, 1823
Locks	William Pie	New York	Aug. 5, 1813
Locks	William Pie	New York	April 28, 1818
Locks	Henry & Jac. Day	New York	April 4, 1820
Locks	Eb. Leman, jr	Boston, Mass	Nov. 28, 1822
Locks	Richard Wilcox	New York	April 20, 1824
Locks	John Brown, & Geo. W. Robinson	Danidana D I	
Locks	Truman Bartholomew.	Providence, R. I	Feb. 20, 1827
Locks	George A. Rogers	New York	April 3, 1829
Locks	Simon Pettis	Augusta, Me Bellows Falls, Vt	Jan. 20, 1830
Locks	P. P. Quimby	Belfast, Me	July 12, 1834
Locks, balance pendulum			May 22, 1≥36
Locks, bank vault	J. Perkins	Georgetown, D. C Newburyport, Mass.	Mar. 17, 1806
Locks and bolts, for sliding doors	Thomas Whaley		Mar. 23, 1813
Locks and bolts	Henry C. Howells	New York	Nov. 2, 1821
Locks for carriages & other doors	James Ives	Putnam, Ohio	Feb. 10, 1834
Locks, combination safety, for	Linus Yale & Charles	Hamden, Ct	July 20, 1846
doors, &c.	Wilson		0.4 00 1040
Locks, construction of	Robert Newell	Springfield, Mass	Oct. 20, 1843
Lock and double catch bolts	Conrad Leibrich	New York, N. Y	June 14, 1843
Lock, door.	Andrew Wolfe	Philadelphia, Pa	Oct. 5, 1839
Lock, door*	James Kyle	Pittsburg, Pa	April 18, 1831
Lock, door	James Kyle	Ramapo, N. Y	May 18, 1832
Lock, door	John Dillingham	Ramapo, N. Y	Sept. 16, 1833
Lock, door	W. Parr & J. T. Fowler	Turner, Me	June 2, 1825
Lock, doort	Solomon Andrews		Nov. 19, 1833
Lock, door	Abel Conant	Perth Amboy, N. J.	Jan. 11, 1836
Lock, door	James McClory	Lowell, Mass New York	Mar. 12, 1836
Lock, door	Benjamin Smith		Mar. 18, 1836
Lock, door	Almon Roff	Canton, Ct New York	April 13, 1836
Lock, door	James McClory	New York	July 1, 1836
Lock, door	Turner Whitehouse	Boston, Mass	July 2, 1836
Lock, door	Turner Whitehouse	Boston, Mass	
Lock, door	Daniel Ball	Kingsbury, N. Y	June 14, 1838 July 12, 1838
Lock, door	James McClory	New York	
Lock, door	Robert Wilson	Burdett, N. Y	June 14, 1837
Lock, doort	Erastus Finney	Cleveland, Ohio	May 10, 1838
Lock, door	Peter Rogers.	Philadelphia, Pa	June 18, 1839
Lock, door	John P. Sherwood	Sandy Hill, N. Y	Sept. 25, 1840 Dec. 17, 1842
Lock, door	George Oates	Charleston, S. C	
Lock, door	John H. Davis	Lumberville, Pa	Sept. 2, 1845
Lock, door	Linus Yale	Springfield, Mass	Mar. 7, 1846
Locks, door and other	Wm. & J. N. Tuttle,	opinigheid, idas	June 13, 1844
	ass'ees of Charles F. Voorhies	Newark N T	Tune 0 1040
Lock, door, for banks	James McClory	Newark, N. J	June 9, 1843
Lock, door, escutcheon, &c	P. Blake, E. W. Blake,	New York city	June 19, 1838
	& John A. Blake	Now Homes Co	Day 21 1000
Lock, door, and other fastenings.	J. R. Campbell and H.	New Haven, Ct	Dec. 31, 1833
•	C. Campbell	Charlestown, Mass.	Dec 99 1995
Lock, door, &c., alarm	David Edwards	McConnellsville, O.	Aug 19 1940
Lock, door, &c	August Prutzman	Philadelphia Pa	Sent. 5 1940
Lock, door, combined snail-wheel		z macipiia, z a	Dept. 3, 1040
lock	Solomon Andrews	Perth Amboy, N. J.	Feb. 12, 1841
Lock, door and key	Wm. M. Williams	England	Dec. 1, 1840
Lock, door and latches	Nathan & Caleb Hunt	Cleveland, Ohio	July 29, 1839
Lock, door and latches	George W. Wilson	Nashua, N. H	June 11, 1841
Lock, door, bank, safes, &c	M. R. Stephenson and	,	11, 1011
	O. Edwards	Boston, Mass	April 17, 1844
Lock, door, bank, safes, &c	M. R. Stephenson and		_
•	O. Edwards	Boston, Mass	July 9. 1844
* Reisened Sent 10 1000			• •
	patent, Sept. 30, 1841.	Additional improvement,	Jan. 14, 1848.
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† New patent, Sept. 30, 1841. † Additional improvement, Jan. 14, 1849.

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INVENTIONS OR DISCOVERIES:	PATEWTERS.	residence.	WHEN ISSU	ED.
Lock, door, combination	Sabin Colton	Philadelphia, Pa	Jan. 6, 1	184
Lock, door, combination	M. R. Stephenson and			
	O. Edwards	Boston, Mass	April 17, 1	
Lock, door, combination	Robert Newell	New York, N. Y	Sept. 17, 1	
Lock, door, combination tumbler.	Robert M. Tuttle	Newark, N. J	Dec. 5, 1	
Lock, door, permutation	J. B. Gray	Fredericksburg, Va.	Sept. 18, 1	84
Lock, door, permutation for vaults,	Doring W. Manles	Contra N.V	Dec. 4.1	0.4
safes, &c	Darius W. Maples	Geneva, N. Y	Dec. 4, 16 Sep. 14, 16	
Lock, door, safety* Lock, door, or spring catch	William Stillman Robert J. Byram	Westerly, R. I Boston, Mass		
Locks, door and trunks	Asa Beals	Exeter, N. H	May 31, 11 Jan. 26, 1	83
Lock and key, door	Godfried M. Zahm	Lancaster, Pa	May 26, 1	
Locks and keys	Angus McKennon	New York	Aug. 16, 1	
Locks and keys	William Wilson	Northampton, Mass.	Jan. 27, 1	84
Lock and latch combined	Rhodolphus Kingsley.	Springfield, Mass	April 16, 1	84
Locks, Egyptian	A. O. Stansbury	New York	Feb. 11, 1	
Lock for banks and safes, &c	John Oxnard	Portland, Me	April 10, 1	184
Lock for banks and safes, &c	William Hall	Boston, Mass	Oct. 16, 1	
Locks for doors, safes, &c	David M. Smith	Springfield, Vt	July 14, 1	1840
Locks for doors of bank vaults	J. L. Whetstone	Cincinnati, Ohio	July 20, 1	
Locks, for safes, bank vaults, &c.	William Hall	Chelsea, Mass	Aug. 17, 1	
Lock for safes, &c	Henry Isham	Montpelier, Vt	Nov. 12, 1	
Lock for vaults, &c	Henry C. Jones	Newark, N. J	April 26, 1	
Lock, improved, for doors, &c	James Atwater	New Haven, Conn	July 24, 1	840
Locks, knob, spiral spring	James Patterson	Pittsburgh, Pa	Oci. 19, 1	62
Locks, and latch	H. Durkee, assignee of		A 10 1	-
Coolea and lunch for doors	J. Chittenden	Burlington, Vt	Aug. 12, 1	
Locks, and latch, for doors	Joel F. Thayer William Hale	Boston, Mass	May 18, 1 Oct. 18, 1	02
Locks or latch for doors Locks or latch for doors	Theodore L. Littlefield	Chelsea, Mass Philadelphia, Pa	Nov. 21, 1	
Locks or latch for doors, compound			1107. 21, 1	OT
lever gravitating	sig'e of Samuel Noyes	Beverly, Mass	Feb. 20, 1	84.
Lock or latch, check bolt of	Albert Bingham	Boston, Mass	Oct. 17, 1	849
Lock and latch knobs, fastening to				
their spindles, &c	Andrew O. Downer	Utica, N. Y	Dec. 21, 1	849
Locks, and lever key	Augustus Prutzman	Philadelphia, Pa	Mar. 4, 1	83
Locks, manifold permutation	Robert Newell	New York city	Sep. 25, 1	
Locks, manufacturing	James Meneely	Watervleit, N. Y	Jan. 12, 1	83
Locks, mortise	Turner Whitehouse	Boston, Mass	Sept. 29, 18	82:
Locks, mortise, and latch	J. G. Hotchkiss	New Haven, Conn	June 19, 1	
Locks, mortise	P. and E. W. Blake	New Haven, Conn	Feb. 5, 1	83
Locks, mortise	Leonard Foster	Boston. Mass	June 27, 18	
Locks, mail bag, and clasp	Henry C. Jones	Newark, N. J	Oct. 23, 1	
Locks, perplexing	J. C. L. Danbreville	Ramapo, N. Y	Mar. 13, 1	
Locks, permutation lever	J. H. Butterworth	New York, N. Y	Mar. 7, 1	
Locks, permutation	W. E. Woodbridge	Dover, N. J New York, N. Y	April II, II	
Locks, safety	Zibeon Wilbur	Woodbury, Conn	July 14, 1	
Locks, saving, for drawers	Elijah Skinner	Sandwich, N. H	Dec. 23, 14 April 13, 1	ST ST ST ST ST ST ST ST ST ST ST ST ST S
Locks, securing from being pick'ed		Attleborough, Mass.	Inly 17 1	81
Locks, secret, safety	William Hobbs	Springfield, Mass	July 17, 18 Dec. 20, 18	RR
Locks, spiral spring	Nathan Reed	Belfast, Maine	Mar. 31, 1	82
Locks, spiral spring, latch bolt	Abraham Blanvelt	N'w Brunswick, N.J	Feb. 9. 1	82
Locks, trunk	Joseph Nock	Philadelphia Pa	Oct. 10. 1	83
Locks, trunk, &c	Henry C. Jones	Newark, N. J	Dec. 15, 1	
Locks, union	William Pie	New York	April 28, 1	
Locks, wire spring for	Job Baker	New Bedford, Mass.	Oct. 1, 1	183
Locking number of drawers	Edward Brown	Lynchburg, Va	Oct. 28, 1	
Melting metals and ores	Daniel Walworth	Middletown, Conn	May 27, 1	181
Melting metals	Joseph Walworth	New York	Oct. 17, 1	
Metallic cores for pipe boxes	John Huntington	Zanesville, Ohio	Feb. 24, 1	84
Metallic compositions, machine for	F. N. Still	D #1 32 42		
moulding		Kuttala N V	Oct. 7, 18	

^{*} Antedated Murch 14, 1839.



myrnyfont or discoveries.	PATESTERS.	residence.	when mived.
Metallic frame for neck stocks— See class 21.			
Metallic plates, punching holes in. Metallic substances, cutting Metallic surfaces, particularly saw	A. H. Teeple John H. Hall	New York, N. Y Harper's Ferry, Va.	Aug. 28, 1846 Mar. 7, 1827
plates, grinding and polishing Metallurgical operations	Richard M. Hoe Richard Willcox	New York, N. Y Patterson, N. J	May 30, 1842 April 5, 1831
Metallurgical operations, with anthracite coal	Richard Willcox	Patterson, N. J	April 5, 1831
Metallurgical operations, with bi- tuminous coal, charcoal, &c Metallurgy	Richard Willcox John L. Sullivan	Patterson, N. J New York	April 5, 1831 Aug. 18, 1834
Metal, forging, drawing, or forming spindles, &c., in	Jehn Miller & Ebenezer M. Door, assig'es of Wm. Ryder		Feb. 8, 1841 in Eng.; Aug. 26, 1843, U.S. of America.
Metal, manufacture of	Arthur Wall	Poplar, Biackwall, G. Britain	Nov. 18, 1843 Eng.; Aug.10, 1844, U.S. A.
Metal, method of making patterns for casting hollow ware, &c Metal, plates or sheets of, cutting. Metal, preparing, for being manu-	Ezra Ripley	Troy, N. Y Wilmington, Del	Aug. 31, 1844 April 1, 1842
factured into wire Metal, rolling Metal, sheet, cutting into oval	Thomas Wallace Benjamin Norton	Derby, Ct Boonton, N. J	July 20, 1843 Sept. 26, 1846
shapes	Samuel Hall	New York, N. Y Poughkeepsie, N. Y. Southampton, Ct	Nov. 18, 1846 July 17, 1841 April 25, 1843
in the fusion	V. Freeman	Baltimore, Md	April 7, 1829
Monuments, memento plates, cast- ing	Henry Liebenau	New York	Nov. 17, 1830
Moulds for casting boxes Moulds, for casting boxes Moulds for casting butt-hinges	Leonard Tazewell Samuel Smith, 2d Thomas Shepherd and	Lancaster, Mass	
Moulds, casting trundle heads	Thomas Lorin Eb. Lester	Philadelphia, Pa Little Falls	Mar. 16, 1841 Feb. 12, 1807
Moulds, casting iron, brass, &c	John Leonard, jr., J. S. Brainard & Am. Sizer		Jan. 28, 1830
Moulds, for running boxes Nails, brads, &c., outting	Geo. W. Strong and Jonathan Dodge, as	4	Oct. 17, 1809
Nails, cutting	signees of Walt Hunt Josiah O. Pearson	New York	Mar. 23, 1794
Nails, cutting	Jacob Perkins	Boston, Mass Massachusetts	
Nails, cutting	Amos Whittemore	Massachusetts	Nov. 19, 1796
Nails, cutting	Daniel French Edward West	Connecticut Kentucky	
Nails, cutting			
Nails, cutting	. Fred. W. Geisenheiner	Plymouth, N. H	Dec. 22, 1804
Nails, cutting			
Nails, cutting	Briggs R. Reed	Danvers, Mass	Mar. 8, 1810
Nails, cutting	Henry Lutgen	Marietta, Pa	Sept. 8, 1813
Nails, cutting	Roswell Noble	Baltimore, Md	Dec. 17, 1816

INVENTIONS OR	DISCOVERIES.	Patentes.	RESIDENCE.	WHEN ISSUED.
Nails, cutting and	heading	Isaac Garretson	Pennsylvania	Nov. 16, 179
Nails, cutting and		George Chandler	Maryland	Dec. 12, 1796
Nails, cutting and		James Spence	New York	Feb. 16, 179
Nails, cutting and		Jesse Kersey	Pennsylvania	Feb. 24, 1797
Nails, cutting and		Jonathan Neville	Massachusetts	Aug. 12, 1797
Nails, cutting and		Nathan Read	Massachusetts	Jan. 28, 1796
Nails, cutting and		Frederick Young	New York	Aug. 23, 1800
Nails, cutting and		Edward West	Kentucky	July 6, 1802
Nails, cutting and		Jesse Reed	Boston, Mass	Feb. 22, 1807
Nails, cutting and		Elisha Bigelow	Baltimore, Md	April 1, 1807
Nails, cutting and		Simon Willard	Hudson, N.Y	Nov. 30, 1807
Nails, cutting and		Briggs R. Reid	Salem, Mass	Aug. 18, 1810
Nails, cutting and		Jesse Reed	Kingston, Mass	Sept. 16, 1816
Nails, cutting and		William Miller	New York	Sept. 26, 1810
Nails, cutting and		Jesse Reed	Kingston, Mass	Nov. 14, 1811
Nails, cutting and		Josiah White	Philadelphia, Pa	Jan. 11, 1812
Nails, curting and		Mark & Richard Reeve		April 16, 1813
Nails, cutting and		Samuel Rogers		Oct. 21, 1814
Nails, cutting and		Jesse Reed	Hanover, Mass	Oct. 22, 1814
Nails, cutting and		Nathan Elgar	York, Pa	July 25, 1815
Nails, cutting and		Isaac Northrop	Oneida co., N. Y	Jan. 7, 1817
		Jesse Reed	Marshfield, Mass	April 21, 1825
Nails, cutting and		Emerald Mason	Milton, Vt	June 6, 1832
Nails, cutting and	heading wheel	Emerald Mason	Minon, v	Julio 0, 1002
Nails, cutting and		Jesse Reed	Kingston, Mass	April 15, 1809
for		Samuel Rogers & Mel-	Ilingston, Mass	April 10, 1009
rians, cutting, and	t toming mon	ville Otis	Massachusetts	Dec. 7, 1803
Maila anttina valli	na and platina		Widesachuseus	Dec. 1, 1000
Nails, cutting, rolli	ing, and placing.	Stephen Couch & Asa	Poston Mass	Nov. 21, 1868
Mail antina maahi	no fooder for	Towne	Boston, Mass	Dec. 31, 1844
Nail cutting machi		Caleb Isbister	Allegheny, Penn Roxbury, Mass	July 2, 1842
Nails, cutting, ma		Frederick J. Ayers		April 2, 1814
Nails, cutting, vib		Ebenezer A. Lester	Herkimer, N. Y	
Nails, cutting, vib		Jos. Bernard	Troy, N. Y	April 16, 1811
Nails, cylindrical c		Jacob Perkins	Newburyport, Mass.	Jan. 16, 1815
Nails, cylindrical vi			Baltimore, Md	Dec. 27, 1815
Nails, eccentric ro		John Fairbanks	Boston, Mass	Aug. 14, 1819
Nails, heading		Jared Byington	Connecticut	Dec. 23, 1796
Nails, heading		Jason Frost	Connecticut	Dec. 23, 1796
Nails, heading		Matthew C. Groves	Massachusetts	Sept. 3, 1802
Nails, heading		Samuel Rogers	Plymouth, Mass	Dec. 15, 1807
Nails, heading	• • • • • • • • • • • • • • • • • • • •	Asa Chandler and Si-	T	C 10 1040
87. D		las Shepherd	Taunton, Mass	Sept. 16, 1808
Nails, heading		Samuel Rogers	Bridgewater, Mass.	Jan. 26, 1814
Nails, heading		Henry Sedam	Troy, N. Y	Sept. 6, 1815
Nails, heading		Elisha Bigelow	Massachusetts	Jan. 29, 1817
Nails, heading, cu		James Davey	Fairhaven, Conn	April 7, 1814
Nails, from heated		Jesse Reed	Massachusetts	June 9, 1891
Nails, from heated		William Leslie	New Hampshire	Nov. 5, 1801
Nails, from scoop		Nathan Kent	New York	May 1, 1801
Nails, horse-shoe,		aa l		
ting from bars o		Edward Rolph	N. Providence, R. I.	Sept. 16, 1833
Nails, horse, head		J. Bratt and E. Gilmore		June 1, 1830
Nails, hot, heading	g	Mark and Rich. Reeve	Philadelphia, Pa	Nov. 14, 1811
Nails, iron, brass,	and composition			
casung		Joseph Walworth	New York	Nov. 22, 1809
Nails, at one opera		Melville Otis	E. Bridgewater, Mass	
Nail machine, wro		Albert W. Gray	Middletown, Vt	May 16, 1846
Nails, making	• • • • • • • • • • • •	Walter Hunt	New York	Nov. 12, 1839
Nails, manufacturi	ing	S. Briggs, sen., and S.		
	_	Briggs, jr	Philadelphia, Pa	Aug. 2, 1791
BT '3	ing	Thomas Perkins	Pennsylvania	Feb. 7, 1794
Nails, manufacturi				
Nails, manufacturi Nails, manufacturi		Jared Byington	Connecticut	Jan. 15, 1796
	ing	Jared Byington	Connecticut	Jan. 15, 1796 Nov. 19, 1796

^{*} Additional improvement, November 1, 1815.

MYRMTIONS OR DISCOVERIES.	PATRIFFEM.	residence.	WHEN ISSUED.
Wails, manufacturing	Seth Hart	Connecticut	Jan. 4, 1790
Nails, manufacturing	Jacob Perkins		Feb. 14, 1799
Nails, manufacturing			Feb. 20, 1801
Nails, manufacturing	Nathan Fobes		Aug. 2, 1809
Nails, manufacturing	William Caruthers		Dec. 13, 1802
Nails, manufacturing	Oliver Bartlett, O. Bart-	~	
Nails, manufacturing			Feb. 17, 1803 Oct. 18, 1803
Nails, manufacturing	Michael Garber		April 17, 1804
Nails, manufacturing	Joseph J. Meff		June 4, 1808
Nails, manufacturing	Samuel Wilmot, jr		April 21, 1809
Nails, manufacturing	Jos. and John Elgar		Sept. 1, 1809
Nails, manufacturing*	Mark and Rich. Reeve	Burlington, N. J	Feb. 3, 1812
Nails, manufacturing	Nath'l Chichering and		35 3 5 5 5 5 5
	Daniel Chickering.		March 9, 1812
Nails, manufacturing			Mar. 16, 1812
Nails, manufacturing			Oct. 31, 1812
Nails, manufacturing		Hanover, Mass	Dec. 16, 1814
Nails, manufacturing		York, Pa	June 19, 1815
Nails, manufacturing		York, Pa	June 21, 1815
Nails, manufacturing			A 10 1015
N-il	and William Church		
Nails, manufacturing		Sackett's H'bor, N.Y.	Oct. 21, 1815
Nails, manufacturing	William Waring and		Oct 01 1915
Naila manufacturing	Charles Philips	Jefferson, N. Y	Oct. 21, 1815
Nails, manufacturing		Philadelphia, Pa	Feb. 24, 1816
Nails, manufacturing Nails, manufacturing	Mark Reeve	Georgetown, D. C	Mar. 14, 1816 June 26, 1816
Nails, manufacturing		Philadelphia, Pa Philadelphia, Pa	June 27, 1816
Nails, manufacturing			
Nails, manufacturing			April 18, 1817
Nails, manufacturing	J. Kells and J. Carter		June 10, 1817
Nails, manufacturing		Boston, Mass	Dec. 31, 1817
Nails, manufacturing		Zanesville, Ohio	Mar. 22, 1820
Nails, manufacturing		Zanesville, Ohio	Mar. 22, 1820
Nails, manufacturing	. Thomas Morgan	Hempstead, N. Y	Sept. 5, 1821
Nails, manufacturing	George Thompson	Philadelphia, Pa	Sept. 15, 1821
Nails, manufacturing	Lemuel Bolles	New York	
Nails, manufacturing		Philadelphia, Pa	
Nails, manufacturing		Morgan, Mass	
Nails, manufacturing		Wareham, Mass	May 13, 1830
Nails, manufacturing			
***	_ sha Gilmore		June 1, 1830
Nails, manufacturing		Buffalo, N. Y	Oct. 25, 1832
Nails, manufacturing, compound		Roston Mass	Nov 95 1911
lever and parallel shaft for Nails, machine, nippers for Reed's		Boston, Mass Wareham, Mass	
Nail plates, apparatus for feeding		Pittsburg, Pa	
Nails for shoeing horses and oxer		Brandon, Vt	July 14, 1846
Nails, and rivets		Bristol, R. I	
Nails, and screws			
Nails, self-feeding, wrought	Thomas Morgan	Pauerson, N. J	
Nails, sheathing, cast'g into mould		Princeton, N. J	
Nails and brads			
Nails and brads, cutting	Peter Zacharie		
Nails and brads, cutting	Jacob Perkins		July 17, 1810
'Nails and brads, cutting	John P. Swain and J.	1	
Nails and brads, cutting	Skinner		reb. 8, 1811
	ver P. Rand		Mar. 20, 1837
Nails and brads, brass, copper		1	
Nails and brads, covering the	si -	ı	l .
	1	Dorchester, Mass	

* Reterued September 98, 1613.

† Reissued August 7, 1834.

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BIVENTIONS OR DESCOURAGE.	PANGANAMA.		
Nails and brads, from rolled iron.	Joseph Elgar	Brookville, Md	Dec. 16, 1986
•Nails and brads, and sprigs	Increase Kimball	New Hampshire	May 1, 1865
Nails and brads, and sprigs	Roswell Noble	Baltimore, Md	May 17, 1839
Nails and brads, and sprigs, cylin- drical	Robert Turner	Boston, Mass	Feb. 21, 1814
Nails and brads, and spikes, cut-		Washington, D. C	April 8, 1814
Nails and brads, wrought	Stephen Belknap William Slater	Clarksville, Ohio	Mar. 5, 1834
Nails and spikes	Burgess Allison and	,	
a	Richard French	New Jersey	June 8, 1804
Nails and spikes, groeved and	Abiather Eastman	Norway, Mass	<u> </u>
flanched	Thomas W. Harvey.	Jamestown, N. Y	Sept. 13, 1833
Nails and spikes	William Schnebly and Thomas Schnebly	Hagerstown, Md	March 3, 1834
Nails and spikes*	Corning & Horner, as-	I I I I I I I I I I I I I I I I I I I	111111111111111111111111111111111111111
	signees of Osgood &		
	_ Hunt	Albany, N. Y	Mar. 14, 1834
Nails and spikes, heading	Rencore Dare	Ridgton, N. J	Jan. 27, 1838
Nails and spikes, machine	Henry Burden	Troy, N. Y	Dec. 2, 1834
Nails and spikes, wrought, from	William C. Grimes	York, Pa	Dec. 17, 1834
prepared materials	William C. Grimes	York, Pa	Dec. 17, 1834
Nails and spikes, forming	William Ballard	New York	July 17, 1841
Nails and spike, wrought	John McCrone	Ellicott's Mills, Md.	Feb. 21, 1840
Nails, tacks, &c., cutting	James Thompson and		
•	H. Rogers, assignees of Walter Hunt:	New York, N. Y	Oct. 12, 1843
Nails and spikes, wrought	Richard Savary	Pittsburg, Pa	April 2, 1828
Nails and tacks, feeding apparatus		Marshfield, Mass	April 21, 1895
Nails, vertical balance wheel for			
cutting	Ebenezer A. Lester	Herkimer, N. Y	May 8, 1811
Nails, wrought	Daniel French	Connecticut	Dec. 23, 1796 July 11, 1807
Nails, wrought	Jonah Nicholls Leonard Nercross	Rhode Island Livermore, Maine	May 18, 1824
Nails, wrought	Henry Burden	Troy, N. Y	May 26, 1895
Nails, wrought	Shadrack Davis, jr	Dartmouth, Mass	Dec. 8, 1899
Nails, wrought	Gervase B. Manley	Canton, Mass	Dec. 14, 1830
Nails, wrought	Thomas W. Harvey.	Jamestown, N. Y	Jan. 24, 1832
Nails, wrought	John V. Green	New York	Dec. 28, 1882
Nails, wrought	Reuben Daniels Samuel G. Reynolds	Woodstock, Vt Providence, R. I	May 13, 1834 Mar. 18, 1835
Nails, wrought	N. W. Bishop and Si-		l
	meon Brooks	(Choser)	Sept. 21, 1837
Nails, wrought	Theophilus Somerby.	Wells, Maine	Jan. 22, 1840
Needles, manufacture of	Abel Morrall	Studley, Great Britain	Dec. 21, 1839
Ores, improvement in working	William F. Hill V. King and J. King.	New York	Oct. 15, 1814 May 30, 1811
Ores, sweeping and washing	William Davis		April 28, 1836
Ores, iron, method of reducing	William Neal Clay, as-		Mar. 31, 1841,
. ,	signed to William	}	England; July
Over weeking ennement for	Green, jr.	Woodbridge, N.J.	5, '45, U.S.A.
Ores, washing, apparatus for, se- parating or dressing.	Micholas Troughon	Swansea, England	July 23, 1842, England; July
herems of atceems.			22, 1844, U.S.
79.31.1.1.2.2.2			A.
Padlocks and other locks		Philadelphia, Pa	July 16, 1839
Padlocks for mail bags			
Padlocks	William Ball E. H. Roper and Wm.	Washington, D. C.	April 16, 1842
	Ball	Philadelphia, Pa	Nov. 9, 1842
Padlocks for mail bags		Newark, N. J	
	1		
Patterns, for casting	L. H. Mans	Danville, Pa	Feb. 5, 1836

^{*} Rejected January 16, 1946.

mounteens or discounters.	PANGETTE.	rotuanta.	WHEN MOVED.	
TOTAL CONTRACTOR OF THE CONTRACTOR OF T				
Pins, arranging, and sticking into	De Grasse Fowler	North Bradford, Ct.	Sent 90 1844	
Pins, making, of wire, at one ope-	De Cimas Fowler	Trotal Dimitora, Ct.	Dept. 20, 1044	
ration	Moses L. Morse	Boston, Mass	Aug. 22, 1814	
Pins, making	Henry Weston	Philadelphia, Pa	July 23, 1823	
Pins, making	Lemuel W. Wright	Manchester, Eng	Mar. 12, 1825	
Pins, manufacturing	John J. Howe	North Salem, N. Y.	June 22, 1833	
Pins.—See Needles.				
Pins, machine for heading and	6	Duintal D I	Dec 21 1045	
pointing	Sam'l G. Reynolds	Bristol, R. I		
Pin making machine Pins, sticking into paper, machine	John J. Howe	Derby, N. Hav. co., Ct	MAI. 23, 1031	
for	Samuel Slocum	Poughkeepsie, N. Y.	Sept. 30, 1841	
Pins, sticking into paper See Cl				
Pipes.—See Class 9.				
Pipes, boring and tapping See B	oring, Class 11.	•		
Pipes, casting and drawing lead	Joseph C. Vaughn &		_	
	Frederick Leach	Tioga, N. Y	Dec. 31, 1839	
Pipes, coating with tin	Thomas Ewbank	New York	May 16, 1832	
Pipes, leaden	Richard Wall	Waterbury, Ct Otsego, N. Y	July 5, 1822 Mar. 23, 1833	
Pipes, leaden	George W. Potter	Outerd N. H.	Mar. 23, 1833	
Pipes, leaden	Alpheus Todd	Oxford, N. H	A pril 18, 1814	
Pipes, leaden	R. M. Seydle & Louis Ward	Milton, Pa	Aug. 1, 1838	
Pipes, for stills of tin plates, lead.	Thomas Ewbank	New York		
Pipes and tubes, casting	Willard Badger	Boston, Mass		
Pipes or tubes, composition of	······································		200, 1000	
metals	Borroughs Titus	Ulysses, N. Y	April 19, 1831	
Pipes.—See Classes 11 and 15.	J		, ,	
Pipes, machine for making contin-			_	
uously from lead	George Escol Sellers	Upper Darby, Pa		
Pipes, machine for riveting	Jonathan Ball	New York	Dec. 20, 1845	
Pipes, metal, determining their	Transia Allan	Nam Vanh	T 00 1049	
Pines metal machinery and pro-	Horatio Allen	New York	June 29, 1843	
Pipes, metal, machinery and pro- cess of manufacturing	James E. Serrell	New York, N. Y	Jan. 20, 1843	
Pipe, lead, machine for making	Nathan Buttrick, jr	Chelmsford, Mass	Nov. 8, 1845	
Pipes, lead, machinery for manu-	Chs. Sellers and Geo.		5, 1010	
facture of.	E. Sellers	Cincinnati, Ohio	Mar. 9, 1844	
Pipes, lead,&c., machine for mak'g.	John Laing	Bordentown, N. J	Mar. 30, 1843	
Pipes or tubes of lead, &c*	B. jr., & H. B. Tatham,			
	asa'ees of Jno. & C.			
70' . 1 . 61 1 .: 4	Hanson, of England.	Philadelphia, Pa	Mar. 29, 1841	
Pipes or tubes of lead, tin, &c.,	Geo. N. Tatham and	Dhiladalahia Da	0-4 11 1041	
machinery for making.	Benj. Tatham, jr	Philadelphia, Pa Baltimore, Md	Oct. 11, 1841 Sept. 9, 1835	
Plane irons	Peregrine Williamson. Charles E. West	Colebester, Ct	Jan. 10, 1827	
Plane irons, scythes, &c	Daniel Pettibone	Philadelphia, Pa	May 6, 1813	
Plane irons	William Hovey	Boston, Mass	Mar. 10, 1830	
Planes,-See Class 14.				
Plates, horizontal, making holes	Benjamin King	Washington, D. C	May 29, 1817	
Plates and sheets of iron	Evan J. Ellicott	Baltimore, Md	May 28, 1818	
Plates.—See Class 18.				
Plates, door	Edmund J. Sause	New York, N. Y	Aug. 11, 1843	
Plates, door	J. H. Grout and Fow-		M 00 1044	
Pletes door and signs of semeste	ler M. Ray	New York	Mar. 20, 1844	
Plates, door and signs, of separate	Edmund Morris	Philadelphia, Pa	April 25, 1844	
types, &c., method of making Pliers, cutting	Russel Curtis	Springfield, Mass	Oct. 25, 1832	
Polisher, cylindrical	Eb. Stowell	Middlebury, Vt	Aug. 20, 1813	
Polishing wheel, huff	Aaron Broad	Litchfield, Ct	June 6, 1814	
Polishing hard and soft substances.				
Polishing iron and brass wire for				
weaver's reeds		Providence, R. I	Aug. 31, 18 36	
"Antedated August 21, 1887; reigned March 14, 1845.				
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ENVENTIONS OR DECEMBER. PATRICTURE.	KINDSNOY.	
		WASH MINES.
Puddle balls, pressing out instead		
of hammering William Jones	. Haverstraw, N. Y	April 18, 1834
Puddle balls, &c., rolling in the		
manufacture of iron Henry Burden		Dec. 10, 1840
Punch, revolving spring Solyman Merrick	Springfield, Mass	Mar. 17, 1838
Punches, for copper	1	Dec. 6, 1827 April 2, 1822
Punches, power press George Darracot		July 21, 1829
Punches, for types Francis Baily		Jan. 29, 1791
Punching copper or brass John Shugert		July 20, 1831
Punching iron, steel, &c James Bennett	. Brutas, N. Y	July 25, 1839
Punching iron or steel Jedediah Richards		Sept. 28, 1831
Punching metals Levi C. Bunnel	Otsego, N. Y Boston, Mass	Oct. 10, 1834
Punching metal		Mar. 17, 1836 Aug. 14, 1839
Punching sheet iron for stove pipes Samuel Davis	. Mifflin, Pa	Feb. 21, 1840
Punching machine for the manu-	, , , , , , , , , , , , , , , , , , , ,	
facture of covered buttons Alonzo C. Arnold		April 23, 1842
Rack, wrench	f	
Jabez C. Terry		Feb. 20, 1843
Razor, grinding		Aug. 10, 1804
Razor, manufacturing John Brown	. Providence, R. I	June 28, 1824
Rifles, sharpening edge tools.—See Class 4. Rivets and bolt cutter, by lever	•	
purchase	. Unadilla, N. Y	May 12, 1825
Rivets, for coopers George W. Sowle		May 11, 1839
Rivets, for coopers' use* Timothy Allen		Feb. 8, 1833
Rivets, machine for making Horatio G. Reed		Mar. 12, 1845
Rivets, making Isaiah Jennings		April 25, 1608
Rivets, making Levi Severance	8'-	July 11, 1637
Rivets, making Francis A. Cannon		Sept. 25, 1839
Rivets, making		April 24, 1840
Rivets, making Alph. Fobes and Fite		11/111 21, 1010
W. Taylor, ass'ne		i
of Charles Lyon an		Ì
Alpheus Fobes		Sept. 2, 1840
Riveting metallic plates for boilers Robert Smith	Great Britain	Sept. 3, 1839
Rivets and nails, for trunks Luther Houghton		April 15, 1843
Rivet for pickers		May 9, 1846 June 29, 1833
Rivets and screws, heading Thomas W. Harvey. Rollers, for rolling iron, casting Cyrus Alger		Mar. 30, 1811
Rollers, impressed, making knives	Douton, Made	1
and forks John Owings	. Baltimore, Md	June 25, 1814
Rollers, cast iron, laminating and		
flattening metals James Wood		July 20, 1831
Rolling bar iron edgeways George Ellicott		Sept. 20, 1816
	Pennsylvania	
Rolling iron	Bellefonte, Pa Philadelphia, Pa	Jan. 3, 1827 Mar. 14, 1810
Rolling iron for nails Jesse Reed		July 15, 1802
	. West Chester, Pa	June 27, 1810
Rolling metallic tubes Cyrus Eastman	. Hillsborough, N. H.	
Rolling metallic plates, with pro-	1	ļ •
jections thereon Robert Rittenhouse	. Amwell towns'p, Pa.	Mar. 19, 1833
Rolling metals Isaac Hinman	. New Haven, Ct	April 22, 1835
	Philadelphia, Pa	
Rolling mill	. Albany, N. Y Newark, N. I	
Rolling mill, for circular saws Eleazer Carver		
Rolling mill, machinery Benjamin Seymour	. Massachusetts	June 26, 1797
Rolling mill, for sheet iron Samuel Rogers	. Bridgewater, Mass.	June 24, 1818
Rolling mill, and slitting Isaac Pierson	. New York	Dec. 24, 1807
Rolling press, for edge tools Elisha Gordon	. Philadelphia, Pa	June 26, 1812

^{*} Beisened July 8, 1849.

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Myskyricus or Discovilação.	PATEMUTERS.	hammanch.	WROW MUED.
Ropes, wire, method of, and ma-			
chinery for, manufacture	John A. Roebling	Saxonburg, Pa	July 16, 1842
Sand cores for castings	H. Kellogg, ass'ee of J. Kellogg	New Hartford, Ct	April 25, 1846
Sash fastener	James Jones	Rochester, N. Y	Sept. 3, 1846
Saws, apparatus for filing	Nilson J. Wemmer	Philadelphia, Pa	Mar. 18, 1841
Saw, circular.—See Class 14. Saw, circular, cutting teeth in*	Thaddeus Sellick	Philadelphia, Pa	Sept. 19, 1838
Saws, circular, cutting the teeth of	Eleazer Carver	Bridgewater, Mass	Aug. 12, 1840
Saws, circular, stiffening	A. B. Spencer	Washington co., N.Y Newton, Ohio	Sept. 14, 1843 June 6, 1846
Saws, filing and smoothing the	and by Spanoa ittition		
teeth of	Eleazer Carver	Bridgewater, Mass	Aug. 12, 18 49 Feb. 24, 18 45
Saw filing	Jacob Arndt Elijah Stoker	Wheeling, Va Sent to Georgetown.	Nov. 8, 1836
Saw, gumming the teeth of	Phineas Newton	Sidney, N. Y	June 19, 1830
Saw, gumming the teeth of	Phineas Newton	Sidney Plains, N. Y.	Dec. 23, 1830
mill and crosscut	Phineas Newton	Sidney Plains, N. Y.	April 29, 1831
Saw, gumming	Jeremiah Case	Sodus, N. Y	Oct. 25, 1832
Saw, gumming and trimming	Jos. Spencer Joshua Draper	Canajoharie, N. Y Harrisburg, Ia	Aug. 15, 1831 May 31, 1834
Saw, gumming	Henry Johnson	Sidney Plains, N. Y.	Dec. 23, 1830
Saw, manufacturing	Stephen Ustick James Cloud	Washington, D. C Chester, Pa	Aug. 11, 1833 Sept. 8, 1834
Saw sharpener	Solomon Morse	Sempronius, N. Y.	April 26, 1824
Saw teeth, cutting	Andrew T. Mervin	Boro. of Muncy, Pa.	Oct. 28, 1835
Saw teeth, cutting	Samuel G. Merriman. John Barker	Southington, Ct Cambridge, Mass	April 11, 1836 Feb. 3, 1838
Saw trimmer.—See Class 14.			
Saw set	Herrick Aiken William Hinds	Dracut, Mass Otsego, N. Y	May 24, 1830 Aug. 12, 1833
Saw set	Herrick Aiken	Middlesex, Mass	June 12, 1835
Saw set	Theodore Taylor	Port Deposite, Md	Aug. 15, 1836
Saw set	Joseph Beach & David Culver	Hartford, Ct	Sept. 20, 1839
Saw set	E. Waste, N. Welling-	Bennington & Shafts- bury, Vt	Mar. 28, 1838
Saw set, applicable to saws of all	ton, & D. Hutchins.	· ·	111111111111111111111111111111111111111
descriptions	Ebenezer Whiting	Berkshire, N. Y	Oct. 15, 1830
Saw set, for mills	Norman Urquhart Ira Hatch	Madison co., Ala Westford, Vt	Feb. 7, 1832 Oct. 12, 1829
Saw set, spring	John Boggs	Philadelphia, Pa	Oct. 4, 1897
New set	John Somner	Franklin, Pa	Nov. 16, 1812 Oct. 14, 1815
Saw setting, and using saw teeth. Saw setting	John Russell	Brooke, Va Camden, S. C	Dec. 7, 1821
Saw setting	Joseph Beach	Middletown, Ct	Oct. 28, 1829
Saw setting	David C. Jordon Rufus Grundy	New York New York	Dec. 2, 1823 Dec. 21, 1823
Saw setting	Joseph H. Shreiner	Philadelphia, Pa	Aug. 19, 1826
Screws, bolts, and nuts, cutting Screws, bolts, pins, and rivets,	Smith Groom Lorenzo D. Walter &	Troy, N. Y Fort Plain, Spring-	July 28, 1846
making.	Jacob Walter.	field, N. Y	Feb. 7, 1842
Screws, casting metal	John Nicholson	Herkimer, N. Y	April 28, 1819
Screws, cutting	David Wilkinson E. Hassard & J.White	Rhode Island Philadelphia, Pa	Dec. 14, 1798 May 15, 1812
Screws, cutting	Jacob Sloat	Ramapo Cove, N. Y	May 4, 1813
Screws, cutting	John Hames Joseph Blackall	Richmond, Va Albany, N. Y	Dec. 30, 1813 July 29, 1837
Screws, cutting, by circular cutter		Boston, Mass	Feb. 9, 1815
Screws, cutting, endless	John H. Schrader	Philadelphia, Pa	Oct. 25, 1832
Screws, cutting, for gimblets	Chas. Daniels, ass'e of W. W. Southworth.	Saybroek, Ct	Mar. 30, 1830
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^{*} Antolated March 19, 1838.

EMPERATIONS OR DISCOGNACIO.	PANGANANA.	STANDARDS.	arith Miss.
Screws, cutting and heading	John Mason	Boston, Mass	Mar. 30, 1915
Screws, cutting and heading, wire.		Ramapo, N. Y	Nov. 26, 1836
Screws, cutting notches in heads.	J. H. Pierson	Ramapo, N. Y	Nov. 28, 182
Screws, cutting, of screw bedsteads		Towanda, Pa	Feb. 16, 1837
Screws, cutting and turning iron		Towaniua, La	100. 10, 100.
and steel.	Abbott	Bath, N. H	Dec. 23, 1830
Screws and nuts, cutting the flutes		Dain, IV. II	200 40, 200
and threads of	Alexander Patton	Columbus, Ohio	Mar. 21, 1833
Screws, cutting, wood			July 19, 1809
Screws, cutting, wood and metal.	John Andrews	Worcester, Mass Dinwiddie co., Va	Aug. 11, 1817
Screws, cutting, wood, &c., threads		Dinwiduc co., va	
of a	H. Crum	Clarkstown, N. Y	Nov. 14, 1836
	l -		1101. 14, 2000
Screws, cutting, wood	Jacob Sloat and	Ramapo and Pough-	Mar. 30, 1837
Communication and	Thos. Springsteen	keepsie	Mai. 50, 1051
Screws, cutting, wood	Jas. Keene and Thos.	Hamandan N V	T 0 1926
Comments and minute and minute	Keene	Haverstraw, N. Y	July 9, 1838
Screw, heads and rivets, cutting		Manual N. V	Dec 06 1922
and punching metals	Enoch Scott	Monroe co., N. Y	Dec. 26, 1833
Screw, heading, wood	Abel Stowell	Worcester, Mass	Feb. 4, 1813
Screws, heading blanks	Thomas W. Harvey	New York, N. Y	Sept. 3, 1846
Screws, improvement in machine		D . 1.6. 3 TH	Dag 2 1046
for cutting	Peter H. Watson	Rockford, Ill	Dec. 3, 1846
Screw, iron, casting in moulds	E. Lester	Herkimer, N. Y	May 10, 1805
Screws, machine for cutting points		G : 611.36	M 7 1040
_ on	Solyman Merrick	Springfield, Mass	Mar. 7, 1846
Screws, manufacture of wood	Simeon Brooks & W.	a) . a.	T 00 104F
	N. Clark	Chester, Ct	Jan. 23, 1845
Screws, machine for cutting	Cullen Whipple	Providence, R. I	July 10, 1845
Screw, manufacturing the shanks	7 1 5 1 .	37 1 . 34	Mr. 00 1010
of	Jacob Perkins	Newburyport, Mass.	Mar. 23, 1813
Screw, manufacturing	A. Burnham & Thos.	G1 G.	Dec 21 1012
	S. Barnum	Sharon, Ct	Dec. 31, 1813
Screw, manufacturing	William Keane	Monroe, N. Y	Feb. 13, 1836
Screw, manufacturing	Jamas Gleason	Philadelphia, Pa	Mar. 7, 1814
Screw, manufacturing	Phineas Dow & Dan'l	Danten Man	A 0 1017
6	Treadwell	Boston, Mass	Aug. 8, 1817
Screw, manufacturing, right and	The B Colin	T N V	Oct 11 1994
left, for bedsteads	Thomas B. Smith	Troy, N. Y	Oct. 11, 1824
Screw, manufacturing, arranging	T 1 THE THE !	Landon Fra	Dec 6 1000
machinery	Lemuel W. Wright	London, Eng	Dec. 6, 1828
Screws, metallic	John Luther	Warren, R. J	June 26, 1841
Screw, punch, and rivet cutter	Levi C. Judson	Waterville, N. Y	Nov. 18, 1825
Serew, slitting and finishing the	Tanhun Wishaula	Poston Mass	Man 7 1015
heads of	Joshua Witherle	Boston, Mass	Mar. 7, 1815
Screw, swedge	Richard Whitney	Baltimore, Md	April 10, 1830
Screw, wood	Hazard Knowles	Colchester, Conn	April 1, 1831
Screw, wood fairbing the	R.C. Read & C.O.Read	Worcester, Mass	June 27, 1834
Screw, wood or iron, finishing the	Abel Stewall	Womanton Moss	Tules 15 1919
heads	Abel Stowell	Worcester, Mass	July 15, 1813
Screw, wood, turning heads	Thomas W. Harvey	Poughkeepsie, N. Y.	Mar. 25, 1837
Screw, woods	Clement O. Read	Providence, R. I	Dec. 15, 1837
Screws, wood, cutting threads of.	Thomas J. Sloan	New York, N. Y New York, N. Y	Nov. 24, 1846
Screws, wood	Thomas J. Sloan	New York N V	Aug. 20, 1846
Screws, wood, turning heads	Thomas W. Harvey .	New York, N. Y	Aug. 18, 1846
Screws, wood, cutting the threads of.	of Cullen Whipple	Providence, R. I	Aug. 18, 1842
		New York, N. Y	
Screws, wood, threading	Thomas W. Harvey .	New York, N. Y	
Screws, wood, nicking heads	Thomas W. Harvey	THEM TOLK' TA' T''	July 2, 1846
Screws, wood, removing burrs from	Alex. Hodges, assignee	Providence, R. I	April 10, 1843
the under sides of the heads of .	of Cullen Whipple	TIOTMENCE, IV. I	
Screws, wood, turning or shaving		Providence, R. I	Anril 6 1949
the heads of blanks for Screws, wood cutting	of Cullen Whipple Farwell H. Hamilton.	Schenectady, N. Y.	April 6, 1843 July 8, 1841
ANTONIO MANTE CHANTING	rai wen 11. ItanullWil.	~monociary, it. I	July 0, 1041
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^{*}Addit'l imp't Nov. 21, 1839. † Reissued to T. Sellick, adm'r of Wm. Keane, Haverstraw, N. Y., April 16, '38. † Reissued, March 1, 1833. † Reissued October 7, 1846.

MANAGEMENTS OR DIMESTRATES	PARRITUMA.	responds.	WHIM MAKED.
G			
Screws, wood and rivets, turning		Clarketer N V	No. 16 1930
the heads of	Henry Cruen	Clarkstown, N. Y	Nov. 16, 1839
Screw-wrench	Henry W. Howet	Troy, N. Y	Aug. 24, 1839
Screw-wrench	Hawley D. Clapp, as'g'e of Henry W. Hewet	New York	June 27, 1840
Screw-wrench	Stephen Kane & Thos.	NT . NZ 1-	·
Same and all	and James Keane	New York	Aug. 12, 1840
Screw-wrench	Loring Coes	Springfield, Moss	April 16, 184
Screw-wrench	James Brett	Newburg, N. Y	July 10, 1841
Screw-wrench*	Solyman Merrick	Springfield, Mass	Aug. 17, 183
Sesw-wrench	John Williams, jr	Selem, N. Y	Mar. 4, 184
Screw, zigzag	Joseph Woodhull	Rochester, N. Y	Dec. 31, 1826
Scythes, finishing	Charles McNamera	Northbridge, Mass.	Jan. 31, 1821
Seythes, manufacturing	Benj. and John Tyler.	Claremont, N. H	Feb. 1, 181
Beythes, manufacturing	Ephraim Kimball, jr.	Fitchburg, Mass	Jan. 17, 189
Scythes, manufacturing	Charles McNamara	Northbridge, Mass.	Jan. 30, 1825
Scythes, manufacturing	Luther Dudley	Sutton, Mass	May 27, 1826
Seythes, manufacturing	Abel Simonds	Fitchburg, Mass	Jan. 23, 1834
Scythes, manufacturing	Horace Naramore	Caledonia, N. Y	Nov. 24, 1834
Scythes, manufacturing	Augustus W. Searle	Fitchburg, Mass	Dec. 17, 183
Seythes, manufacturing !	Cyrus Thurston, adm'r of Augustus H. Searle	Fitchburg, Mass	Dec. 17, 1834
Scythe snaths - See Cutting, Class 1			Ī
Scythes, turning or bending the			
heel of.	bert G. Page	Fitchburg, Mass	Dec. 10, 1841
Shears, circular	W. Buckley and Philip	-	
	Norton	Berlin, Conn	Nov. 28, 184
Shears, rotary	L. & L. J. Lamb	Berlin, Conn	Nov. 10, 1846
Shears, cutting brass, copper, &c.	George Christian	Mentz, N. Y	Sept. 20, 1834
Shears, cutting pasteboard, sheet			
iron	Alvah Hardy	Boston, Mass	Aug. 12, 1834
Shears, flying, manufacturing	Seth Parsons	Hoosick Falls, N.Y.	June 7, 1836
Shears, tailor's—See Class 21.			
Sheet and boiler iron, &c	John McNary	Brooklyn, N. Y	Dec. 17, 183
Sheet-iron, machine for bending.		Erie, Pa	Sept. 11, 1846
Shield pins, for securing shawls, &co		Brooklyn, N. Y	May 7, 1842
Bhees, horse	Stephen Decatur and		
on s	William Tatham		Oct. 11, 1896
Shees, horse	John B. Brown and J.	-	
en . 1	Farmer	Boston, Mass	Mar. 11, 1898
Shees, horse	Robert E. Horbart	Poustown, Pa	May 24, 1896
Shoes, horse	Sumner King	Sullivan, N. Y	April 1, 1830
Shoes, horse	David Anthony, jr	Adams, Mass	April 8, 1831
Shees, horse	John Deitz	New York	April 22, 1831
Shees, horse	Lewis T. C. Smith	Scott county, Ky	Dec. 15, 183
Shees, horse	Ezekial Davis & Sam'l		0 . (1 100)
			Oct. 8, 1834
GL L	Field	Oakum, Mass	
Shees, horse	Charles B. Reed	W.Bridgewater, Mas	Oct. 20, 1884
Shees, horse	Charles B. Reed Elisha Tolles	W.Bridgewater, Mas Winchester, Conn	Oct. 20, 1834 Oct. 24, 1834
Shees, horse	Charles B. Reed Elisha Tolles Henry Burden	W.Bridgewater, Mas Winchester, Conn Troy, N. Y	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1834
Shees, horse. Shees, horse, cast iron, oxen	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman	W.Bridgewater, Mas Winchester, Conn Troy, N.Y Madison, Ohio	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1834 Nov. 4, 1834
Shees, horse. Shees, horse, cast iron, oxen Shees, horse and oxen	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg	W.Bridgewater, Mas Winchester, Conn Troy, N.Y Madison, Ohio Danube, N.Y	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1834 Nov. 4, 1834
Shees, horse. Shees, horse, cast iron, oxen	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Sternberg Barzillai Young & Sam.	W.Bridgewater, Mas Winchester, Conn Troy, N.Y Madison, Ohio Danube, N.Y	Oct. 20, 1884 Oct. 24, 1834 Nov. 23, 1838 Nov. 4, 1898 April 10, 1891
Shees, horse	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg Barzillai Young & Sam. Titus	W.Bridgewater, Mas Winchester, Conn Troy, N.Y Madison, Ohio Danube, N.Y Brooklyn, Conn	Oct. 20, 1884 Oct. 24, 1834 Nov. 23, 1834 Nov. 4, 1824 April 10, 1890 July 29, 183
Shees, horse	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg Barzillai Young & Sam. Titus Joseph Kirk	W. Bridgewater, Mas Winchester, Conn Troy, N. Y Madison, Ohio Danube, N. Y Brooklyn, Conn Weston, Vt	Oct. 20, 1834 Oct. 24, 183 Nov. 23, 1834 Nov. 4, 1834 April 10, 1831 July 29, 1831 Nov. 8, 1836
Shees, horse. Shees, horse, cast iron, oxen Shees, horse and oxen Shees, herse. Sheeing, swinging horse frame for Shovel, making	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg Barzillai Young & Sam. Titus Joseph Kirk Oliver Aimes	W.Bridgewater, Mas Winchester, Conn. Troy, N. Y. Madison, Ohio Danube, N. Y. Brooklyn, Conn. Weston, Vt. Easton, Mass	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1834 Nov. 4, 1834 April 10, 1831 July 29, 1837 Nov. 8, 1836 Mar. 5, 1837
Shees, horse. Shees, horse, cast iron, oxen Shees, horse and oxen Shees, herse. Sheeing, swinging horse frame for Shovel, making Shevel, socket and sand	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg Barzillai Young & Sam. Titus Joseph Kirk John Righter	W.Bridgewater, Mas Winchester, Conn Troy, N. Y Madison, Ohio Danube, N. Y Brooklyn, Conn Weston, Vt Easton, Mass Downington, Pa	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1834 Nov. 4, 1832 April 10, 1831 July 29, 1831 Nov. 8, 1839 Mar. 5, 1837 July 23, 1811
Shees, horse. Shees, horse, cast iron, oxen Shees, horse and oxen Shees, herse. Shees, herse. Shoeing, swinging horse frame for Shovel, making Shevel, socket and sand Shovel, scoop	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg Barzillai Young & Sam. Titus Joseph Kirk Oliver Aimes John Righter E. Mudge & R. Tenny	W.Bridgewater, Mas Winchester, Conn Troy, N. Y Madison, Ohio Danube, N. Y Brooklyn, Conn Weston, Vt Easton, Mass Downington, Pa Alexandria, N. Y	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1834 Nov. 4, 1832 April 10, 1833 July 29, 1833 Nov. 8, 1834 Mar. 5, 1837 July 23, 1813 April 6, 1833
Shees, horse. Shees, horse, cast iron, oxen Shees, horse and oxen Shees, herse. Shoeing, swinging horse frame for Shovel, making Shevel, socket and sand Shovel scoop. Shovel, scoop.	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg Barzillai Young & Sam. Titus Joseph Kirk Oliver Aimes John Righter. E. Mudge & R. Tenny Mordecai Bull	W. Bridgewater, Mas Winchester, Conn. Troy, N. Y. Madison, Ohio Danube, N. Y. Brooklyn, Conn. Weston, Vt. Easton, Mass. Downington, Pa. Alexandria, N. Y. Greenwich, N. Y.	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1831 Nov. 4, 1832 April 10, 1835 July 29, 1835 Nov. 8, 1836 Mar. 5, 1837 July 23, 1813 April 6, 183 Sopt. 28, 1838
Shees, horse. Shees, horse, cast iron, oxen Shees, horse and oxen Shees, herse. Shoeing, swinging horse frame for Shovel, making Shevel, socket and sand Shovel scoop. Shovel, scoop. Shovel, scoop.	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg Barzillai Young & Sam. Titus Joseph Kirk Oliver Aimes John Righter E. Mudge & R. Tenny Mordecai Bull John & Wm. Smith	W.Bridgewater, Mas Winchester, Conn Troy, N. Y Madison, Ohio Danube, N. Y Brooklyn, Conn Weston, Vt Easton, Mass Downington, Pa Alexandria, N. Y	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1831 Nov. 4, 1832 April 10, 1835 July 29, 1835 Nov. 8, 1836 Mar. 5, 1837 July 23, 1813 April 6, 183 Sopt. 28, 1838
Shees, horse. Shees, horse, cast iron, oxen Shees, horse and oxen Shees, herse. Shoeing, swinging horse frame for Shovel, making Shevel, socket and sand Shovel, scoop Shovel, scoop Shovel, scoop Shovel, scoop Shovel, sco	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg Bazzillai Young & Sam. Titus Joseph Kirk. Oliver Aimes John Righter E. Mudge & R. Tenny Mordecai Bull. John & Wm. Smith	W. Bridgewater, Mas Winchester, Conn. Troy, N. Y. Madison, Ohio Danube, N. Y. Brooklyn, Conn. Weston, Vt. Easton, Mass. Downington, Pa. Alexandria, N. Y. Williamston, Mass.	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1831 Nov. 4, 1832 April 10, 1831 July 29, 1831 Nov. 8, 1839 Mar. 5, 1831 July 23, 1811 April 6, 1833 Sept. 28, 1838 Feb. 25, 1831
Shees, horse. Shees, horse, cast iron, oxen Shees, horse, cast iron, oxen Shees, herse and oxen Shees, herse. Shoeing, swinging horse frame for Shovel, making Shevel, scott and sand Shovel, scoop Stovel, scoop, scoop Shovel, scoop	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg Barzillai Young & Sam. Titus Joseph Kirk Join Righter E. Mudge & R. Tenny Mordecai Bull John & Wm. Smith Elizabeth H. Bulkley.	W. Bridgewater, Mas Winchester, Conn. Troy, N. Y. Madison, Ohio Danube, N. Y. Brooklyn, Conn. Weston, Vt. Easton, Mass. Downington, Pa. Alexandria, N. Y. Williamston, Mass. Colchester, Conn.	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1831 Nov. 4, 1832 April 10, 1831 July 29, 1831 Nov. 8, 1832 Mar. 5, 1832 July 23, 1811 April 6, 1833 Sopt. 28, 1832 Feb. 25, 1831
Shees, horse. Shees, horse, cast iron, oxen Shees, horse and oxen Shees, herse. Shoeing, swinging horse frame for Shovel, making Shevel, socket and sand Shovel, scoop Shovel, scoop Shovel, scoop Shovel, scoop Shovel, sco	Charles B. Reed Elisha Tolles Henry Burden Stephen W. Whitman Peter Steraberg Barzillai Young & Sam. Titus Joseph Kirk Oliver Aimes John Righter E. Mudge & R. Tenny Mordecai Bull John & Wm. Smith Elizabeth H. Bulkley. John Brower	W.Bridgewater, Mas Winchester, Conn. Troy, N. Y. Madison, Ohio Danube, N. Y. Brooklyn, Conn. Weston, Vt. Easton, Mass. Downington, Pa. Alexandria, N. Y. Greenwich, N. Y. Williamston, Mass. Colchester, Conn. Berks county, Pa.	Oct. 20, 1834 Oct. 24, 1834 Nov. 23, 1831 Nov. 4, 1832 April 10, 1831 Nov. 8, 1836 Mar. 5, 1837 July 23, 1811 April 6, 183 Sept. 28, 1831 Feb. 25, 1838 Feb. 28, 1835 Feb. 28, 1835

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i Raissand October 19, 1842.

* Reisened May 17, 1842.

Silver and gold, washing and amalgamation. Silver ware, manufacture of Sickles, files, &c., cutting. Sink, cast iron.—See Class 17. Skates	inventions or discoveries.	PATRITTUR.	MANAGENCIA.	WHEN MINED.
Shovel, awagging and setting. Shutters, apparatus for closing and retainings. Shutters, apparatus for closing and retainings. Shutters, opening and fastening. Shutters of blind fastenerst. Silver and gold, washing and amal silver with a	Shovel and snades*	Ch. Richmond& Sem		
Shovels, awagging and setting. Shutters, apparatus for closing and retaining. Shutter and blind fasteners! Samuel Lichtestheler. William H. Mackrell. Samuel Asbury. Coburn's p. o. N. C. May 2, 184 Simon Hornback.	Date of the species of the second	1		April 7, 1831
retaining. Shutter and blind fasteners! Shutters, opening and fastening Shutter and blind fasteners! William H. Mackrell Sliver and gold, washing and amalgamation. Samuel Asbury. Sliver ware, manufacture of Sickles, files, &c., cutting. Sliver ware, manufacturing. Sliver ware, manufacturing. Specks, blind for polishing. Specks, wrought iron, machine for making. Spikes, more machines. Spikes, wrought iron, machine for making. Spices, bould for polishing. Spoons, casting, forming land have been and manufacturing. Spoons, manufacturing. Spoons, manufacturing. Spoons, manufacturing. Spoons, manufacturing. Spoons, manufacturing. Springs, door, for closing doors. Spring, door, for closing doors. Spring door, for closing doors.		Upton Reid		
Shutter, opening and fastening: Shutter and blind fastenerers! Sliver and gold, washing and amalgamation on the state of t			Hinkley, Ohio	July 20, 1844
Shutter and blind fasteners! Silver and gold, washing and amalgamation. Samuel Asbury. Walter W. Hart. Silver ware, manufacture of . Sickles, files, &c., cutting. Sockets, files, &c., cutting. Spade, pronged. Spade, pronged. Spade, pronged. Spade, pronged. Spikes, asolis, &c., clinching of . Spikes, nails, &c., clinching of . Spikes, hading. William Hatch. May 2, 184 May 3, 184 May 2, 184 May 2, 184 May 3, 184 May 3, 184 May 2, 184 May 1, 184 May 2, 184 May 2, 184 May 2, 184 May 2, 184 May 1, 184 May 2, 184 May 1, 184 May 2, 184 May 2, 184 May 1, 184			Litiz, Pa	July 14, 184
gamation Sliver ware, manufacture of Walter W. Hart. Philadelphia, Pa. May 9, 184 Slickles, files, &c., cutting Sink, cast iron.—See Class 17. Skates		1	New York, N. Y	June 13, 1831
Silveke, manufacture of Sink, cast iron.—See Class 17. Sink, cast iron.—See Class 17. Sink, cast iron.—See Class 17. Skates			Coburn's p. o. N. C.	May 2, 1844
Sickles, files, &c., cutting. Sink, cast iron.—See Class 17. Skrates	Silver ware, manufacture of			May 9, 1846
Skrates		Simon Hornback		Feb. 11, 1831
Skates		THE 1 THE 1 1	m 27 37	D 00 1001
Slitting mill. Slockets, iron, making. Leo. Morse, assignee of Harvey Pettee of Harvey Pettee. Hervick Aiken. Spade, pronged. William B. Horton. Ch. Richmond & Sam. Caswell, jr. Caswell, jr. Caswell, jr. Middletown, Conn. June 15, 183 Spikes, bolts, nails, &c. cut and wrought. Spikes, nails, &c. clinching of James Buckelew Spikes, nails, &c. clinching of James Buckelew Spikes, heading. William Emmons. William Thomas. Spikes, heading. Spikes, heading. Spikes, heading. Spikes, heading. Spikes, heading. Spikes, improvement in making. Spikes machine, improvement of Burden's patent. Spike machines. Spons, casting, forming moulds spoons, casting, forming moulds spoons, casting. Thomas Mix. Cheshire, Conn. March 5, 183 Spoons, casting. Thomas Mix. Cheshire, Conn. March 5, 183 Spoons, manufacturing. Joed Hall, 2d. Spoons, manufacturing. Jacob Perkins New York. Dec. 4, 1844 Spoons, manufacturing. Jacob Perkins New York. Dec. 4, 1844 Spoons, manufacturing. Milliam Mix. Prospect, Conn. March 5, 183 Spoons, manufacturing. Jacob Perkins New York. Dec. 4, 1844 Spoons, manufacturing. Archibald Little. Bridgen, N. J. Dec. 14, 180 Spoons, door, for closing doors. Gardner Barton, jr. Shafabury, Vt. July 1, 1846 Spring door, for closing doors. Gardner Barton, jr. Shafabury, Vt. July 1, 1846 Spring door, for closing doors. Gardner Barton, jr. Shafabury, Vt. July 1, 1846				
Sockets, iron, making				
Scekets for holding tools. Herrick Aiten. Foxborough, Mass. Dec. 23, 183 Spade, pronged. William B. Horton. Spade, socket. William B. Horton. Ch. Richmond & Sam. Caswell, jr. Caswell, jr. Taunton, Mass. July 13, 163 Spikes, holts, nails, &c. cut and wrought. Spikes, nails, &c., clinching of Spikes, heading. Spikes, heading. William Emmons. New York, N. Y. Sept. 3, 184 Spikes, heading. Spikes, heading. Spikes, heading. Robert S. Harris. Spikes, heading. Spikes, heading. Spikes, heading. Spikes, heading. Spikes, heading. Spikes, heading. Spikes, hook or brad-headedt. Spikes, heading. Spikes, moreovement in making. Spikes machine, improvement on Burden's patent. Spike machine, improvement on Burden's patent. Spike machine, improvement on Rairing. Spoons, &c., buff for polishing. Spoons, casting. The making of the spoons, casting. The spoons, casting. Thomas Mix. Dec. 14, 1845 Spoons, casting. Thomas Mix. Cheshire, Conn. June 15, 1848 Spikes, heading. Spoons, casting. Thomas Mix. Cheshire, Spoons, casting. Thomas Mix. Cheshire, Conn. March 15, 1845 Spoons, manufacturing. Joel Hall, 2d. William Mix. Prospect, Conn. June 29, 1815 Spoons, manufacturing. James Ridgway. Grosen, Mass. Spoons, manufacturing. James Ridgway. Grosen, Mass. Spoons, manufacturing. Archibald Little. Bridgton, N. J. Dec. 14, 1830 Spoons, manufacturing. Spoons, manufacturing. Spoons, manufacturing. Spoons, manufacturing. Spoons, manufacturing. Archibald Little. Bridgton, N. J. Dec. 17, 1830 Spoons, manufacturing. Spoons, manufa			Liyaloudi, mass	mpin o, rose
Scekets for holding tools. Spade, pronged. Spade, socket. Spade, socked. Spade, s	wooden, non, making		Foxborough, Mass.	Dec. 28, 1838
Spade, pronged	Sockets for holding tools			Dec. 27, 1839
Spelter.—See Zinc. Spikes, bolts, nails, &c. cut and wrought Spikes, nails, &c., clinching of Spikes, heading. Spikes, nails, &c., clinching of Spikes, heading. Spikes, heading. Spikes, heading. Spikes, heading. Spikes, hook or brad-headedt. Spikes, shook or brad-headedt. Spikes, Spike	Spade, pronged	William B. Horton		June 15, 1899
Speikes, bolts, nails, &c. cut and wrought		Ch. Richmond & Sam.		
Spikes, nails, &c. cut and wrought. Spikes, nails, &c., clinching of Spikes, heading. Spikes, spec Nails. Spikes, spec Nails. Spikes, spec Nails. Spikes, spec Nails. Spikes, manufacturing moulds for making. Spoons, casting, forming moulds for the spoons, casting. Spoons, casting. Spoons, casting. Spoons, casting. Spoons of block-tin, improvement in manufacturing. Spoons, m	a 1	Caswell, jr	Taunton, Mass	July 13, 18 3 2
Spikes, nails, &c., clinching of Spikes, heading. Spikes, heading. Spikes, heading. Spikes, heok or brad-headedt. Spikes, hook or brad-headedt. Spikes, hook or brad-headedt. Spikes, heok or brad-headedt. Spikes, heok or brad-headedt. Spikes, heok or brad-headedt. Spikes, while				
Spikes, nails, &c., clinching of Spikes, heading William Emmons. New York, N. Y. Sept. 3, 1848. Spikes, heading William Thomas Hingham, Mass. Mar. 14, 1849. William Hatch. Spikes, improvement on Burden's patent. Spike machine, improvement on Burden's patent. Spike machine, improvement on Burden's patent. Spoons, &c., buff for polishing. Spoons, casting, forming moulds for Massing Casting, forming moulds for Casting, forming moulds for Month of the March of March 15, 1845. Spoons, casting. William Mix. Prospect, Conn. March 5, 1845. Spoons, casting. William Mix. Prospect, Conn. June 28, 1846. Spoons, forks, &c., design. Michael Gibney. New York. Dec. 4, 1844. Spoons, manufacturing. Jacob Perkins. Newburyport, Mass. Spoons, manufacturing. Jacob Perkins. Newburyport, Mass. Spoons, manufacturing. Jacob Perkins. Newburyport, Mass. Spoons, manufacturing. Archibald Little. Bridgton, N. J. Dec. 14, 1801. Spoons, manufacturing. Spoons, manufacturing. Archibald Little. Bridgton, N. J. Dec. 14, 1801. Spoons, manufacturing. Spoons, manufacturing. Spoons, manufacturing. Archibald Little. Bridgton, N. J. Dec. 14, 1801. Spoings.—See Sofa. &c., Class 17. Springs door, for closing doors. Springs door, for closing doors. Spring door, for closi		W T Gainer	Washington D.C.	Ton 0 1040
Spikes, heading				
Spikes, heading	Spikes, nails, &c., clinching of			
Spikes, heading	Spikes, heading			
Spikes, hook or brad-headedt. Spikes,—See New Nowliss.—See Nowless.—See Nowless.—See Nowless.—See Nowless.—See Nowless. Spike machine, improvement on Burden's patent. Spike machines, improvement on Burden's patent. Spike machines, improvement on Burden's patent. Spike machines, improvement on Burden's patent. Spike machines, improvement on Burden's patent. Spike machines, improvement on Burden's patent. Spike machines, improvement on Burden's patent. Spike machines, improvement on Burden's patent. Spike machines, improvement on Burden's patent. Spike machine, improvement on Burden's patent. Spike machines, improvement on Burden's patent. Spoons, casting. Spoons, casting forming moulds for Chester, Ct. Det. 15, 1845 Spoons, casting. Dec. 15, 1845 Dec. 4, 1844 Maryland. Spoons, forks, &c., design. Michael Gibney. May 10, 1846 May 10, 18				Jan. 25, 1841
Spikes, improvement in making. Spike machine, improvement on Burden's patent. Spike machines. Spikes, wrought iron, machine for making. Spoons, &c., buff for polishing. Spoons, &c., buff for polishing. Spoons, casting, forming moulds for Spoons, casting, forming moulds for Spoons, casting. Spoons, casting. Spoons, casting. Spoons of block-tin, improvement in manufacture of Spoons, manufacturing. Charles Goodyear. Spoons, plating, mill for Spoons, plating, mill for Spoons, sliver, mill. Spoing bearer, for window sash. Spring bolt for door and other locks. Springs, door, for closing doors. Spring, door, for closing doors, gates. Spring door, for closing doors, gates. Spoing door, for	Spikes, hook or brad-headedt			Sept. 2, 1840
Spike machine, improvement on Burden's patent. Spike machines				• • • • • • • • • • • • • • • • • • • •
Burden's patent. Spike machines. Spikes, wrought iron, machine for making. Spoons, &cc., buff for polishing. Spoons, casting, forming moulds for Luther Board for Cheshire, Conn. March 5, 1838 Prospect, Conn. June 28, 1836 William Mix. Prospect, Conn. June 28, 1836 Wallingford, Conn. April 25, 1845 Maryland. Sept. 14, 1801 Spoons, manufacturing for Spo			Medford, Mass	July 28, 1846
Spike machines Spikes, wrought iron, machine for making Spoons, dec., buff for polishing Spoons, casting, forming moulds for Spoons, casting, forming moulds for Spoons, casting Spoons Spoons, casting Spoons, casting Spoons, casting Spoons Spoons, casting Spoons Spoons, casting Spoons Spoons, casting Spoons Spoons, casting Milliam Mix Spoons, manufacturing Spoons, manufa			Town N V	M 10 1042
Spikes, wrought iron, machine for making	Spike machines			
making Harry A. Wills. Keensville, N. Y. Mar. 21, 1845 Spoons, dec., buff for polishing Spoons, casting, forming moulds for Spoons, casting Spoons, forks, &c., design Spoons, manufacture of Spoons, manufacturing Spoons, plating, mill for Spoons, silver, mill Spoons, silver, mill Spoons, silver, mill Spoons, silver, mill Spoing bearer, for window sash Spring bearer, for window sash Spring bearer, for closing doors Springs door, for closing doors Spring, door, for closing doors, gates Gardner Barton, jr Shafabury, Vt Keensville, N. Y Beast Haddam, Ct Cheshire, Conn March 5, 1835 Walliam Mix Prospect, Conn March 5, 1835 March 1, 1840 March 1, 1841 March 1, 18	Spikes wrought iron machine for	Samuel Reynolds	Dristoi, K. I	July 20, 1044
Spoons, &c., buff for polishing Spoons, casting, forming moulds for Spoons, casting, forming moulds for Spoons, casting, forming moulds Spoons, casting. Luther Board Chester, Ct Cheshire, Conn March 5, 1833 March 18, 1836 March 18, 1		Harry A. Wills	Keensville, N. Y	Mar. 21, 1843
Luther Board	Spoons, &c., buff for polishing			
Spoons, casting	Spoons, casting, forming moulds			
Spoons of block-tin, improvement in manufacture of Joel Hall, 2d Wallingford, Conn. April 25, 1846 Spoons, forks, &c., design Michael Gibney Thomas Bruff Maryland Sept. 14, 1801 Spoons, manufacturing Jacob Perkins New York Sept. 14, 1801 Spoons, manufacturing Jacob Perkins New York Spoons, manufacturing Jacob Perkins James Ridgway Groten, Mass Sept. 22, 1814 Spoons, manufacturing Archibald Little Bridgton, N. J. Dec. 7, 1836 Spoons, plating, mill for Spoons, plating, mill for Spoons, silver, mill J. Brockway William McLean Spring bearer, for window sash Spring bearer, for window sash Spring bolt for door and other locks Springs See Sofa &c., Class 17. Springs, door, for closing doors William W. Smith and Benj. Mulliken, jr Shafabury, Vt July 1, 1846	for			Oct. 7, 1842
Joel Hall, 2d	Spoons, casting			
In manufacture of Joel Hall, 2d Wallingford, Conn. April 25, 1844 Spoons, for closing doors, gates Joec Joek Hall, 2d Wallingford, Conn. April 25, 1844 Dec. 4, 1840 Dec. 14, 1840 Dec. 14, 1840 Dec. 7, 1850 Dec. 15, 1840 Dec. 1840	spoons, casting.	William Mix	Prospect, Conn	June 28, 1836
A poone, forks, &c., design. By poone, manufacturing. By poons, manufacturing. But, Mass. By roten, Mass. Bridgton, N. J. Briddelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Boec. 4, 1844 Bridgton, N. J. Broton, Mass. Sept. 22, 1614 Bridgton, N. J	in manufacture of	los Well 94	Wallingford Conn	April 05 1946
Spoons, manufacturing	Spoons, forks &c design			
Spoons, manufacturing. Spoons	poons, manufacturing			
Spoons, manufacturing. Jacob Perkins New buryport, Mass. June 29, 1813 Spoons, manufacturing William Gale New York Dec. 7, 1830 Spoons, manufacturing Archibald Little Bridgton, N. J. Dec. 14, 1830 Spoons, manufacturing Charles Goodyear Philadelphia, Pa Aug. 11, 1830 Spoons, plating, mill for Sanford Boon Hamilton, N. Y. July 19, 1838 Spring bearer, for window sash Spring bearer, for window sash Spring bolt for door and other locks binson William McLean G. W. and Ezra B. Robinson Boston, Mass June 10, 1840 Springs, door, for closing doors William W. Smith and Benj. Mulliken, jr Shafabury, Vt July 1, 1840 Spring door, for closing doors, gates Gardner Barton, jr Shafabury, Vt July 1, 1840	poons, manufacturing			
poons, manufacturing. James Ridgway. Groten, Mass. Sept. 22, 1814 Dec. 7, 1830 Dec. 14, 1830 Dec. 14, 1830 Dec. 14, 1830 Dec. 14, 1830 Dec. 15, 1840 Dec. 16, 1840 Dec. 18, 1840 Dec. 18	poons, manufacturing			June 29, 1813
poons, manufacturing. Charles Goodyear. Sanford Boon. J. Brockway. William McLean. G. W. and Ezra B. Robinson. Porings for carriages.—See Class 10. porings.—See Sofa. Sec. Class 17. porings, door, for closing doors. Poring door, for closing doors, gates. William W. Smith and Benj. Mulliken, jr. Paring door, for closing doors, gates. William W. Smith and Benj. Mulliken, jr. Charles Ellis. William W. Smith and Benj. Mulliken, jr. Shaftabury, Vt. Dec. 14, 1830 Poec. 27, 1830 Poec. 27, 1830 Poec. 27, 1830 Poec. 14, 1830 Poec. 15, 1830 Poec. 15, 1830 Poec. 15, 1830 Poec. 15, 1840 Poec. 16, 1830 Poec. 16, 1830 Poec. 17, 1830 Poec. 18, 1830 Poec. 18, 1830 Poec. 16, 1830 Poec. 16, 1830 Poec. 17, 1830 Poec. 17, 1830 Poec. 18, 1830 Poec. 18, 1830 Poec. 19, 1830 Poec. 18, 1830 Poec. 19, 1830 Poec. 18, 1830 Poec. 19, 1	spoons, manufacturing	James Ridgway		Sept. 22, 1814
Spoons, manufacturing,	spoons, manufacturing			
Spoons, manufacturing	poons, manufacturing			
Springs bearer, for window sash. Springs bearer, for window sash. Springs bolt for door and other locks Springs for carriages.—See Class 10. Springs, door, for closing doors. Spring door, for closing doors, gates. Spring door, for closing doors, gates. Sanford Boon. Hamilton, N. Y. July 19, 1838 Sept. 30, 1836 May 2, 1846 May 2, 1846 Soton, Mass Dec. 15, 1843 Boston, Mass Dec. 15, 1843 Spring door, for closing doors, gates. Gardner Barton, jr. Shaftsbury, Vt. July 19, 1838 Sept. 30, 1836	poons, manufacturing,			
Spring bearer, for window sash. Spring bearer, for window sash. Spring bearer, for window sash. Spring bolt for door and other locks of the springs of the springs of the springs.—See Sofa. Sec. Class 10. Springs, door. Charles Ellis	Spoons pleting mill for			
Spring bearer, for window sash Spring bolt for door and other locks Springsfor carriages.—See Class 10. Springs, door, for closing doors Spring door, for closing doors, gates Spring door, for closing doors, gates G. W. and Ezra B. Robinson Boston, Mass Boston, Mass Boston, Mass Dec. 15, 1843 Nov. 13, 1840 Gardner Barton, jr Shaftsbury, Vt July 1, 1846	poons, silver, mill		Trov. N. Y.	
Spring bolt for door and other locks binson	pring bearer, for window sash	William McLean	Allegheny. Pa.	
Springsfor carriages.—See Class 10. Springs.—See Sofa. &c., Class 17. Springs, door, for closing doors. Spring door, for closing doors, gates	pring bolt for door and other locks	G. W. and Ezra B. Ro-	-0,,	
Springs for carriages.—See Class 10. Springs.—See Sofa. Sc., Class 17. Charles Ellis Boston, Mass Dec. 15, 1843 Spring, door	•		Boston, Mass	June 10, 1840
pprings.—See Sofa. &c., Class 17. Charles Ellis Boston, Mass Dec. 15, 1843 pring, door, for closing doors, gates	pringefor carriages See Class 10.			•
Springs, door, for closing doors. Spring, door, for closing doors, gates. Charles Ellis	Prings.—See Sofa, &c., Class 17.	C)	2	
Spring door, for closing doors, gates Gardner Barton, jr Shaftsbury, Vt July 1, 1840	prings, door, for closing doors		Boston, Mass	Dec. 15, 1843
gates Gardner Barton, jr Shaftsbury, Vt July 1, 1840	hring, goor	William W. Smith and	Name Voule	N 12 1040
gates Grardner Barton, jr Shaftsbury, Vt July 1, 1840	foring door for closing doors	Denl. Mannken, 11.	TAOM TOLK	1404. 13, 15 40
*Disclaimer Feb'ry 24, 1842. † Reinsued Dec. 16, 1839. ‡ Antedated March 2, 1840.		Gardner Barton, jr	Shaftsbury, Vt	July 1, 1840
	* Disclaimer Feb'ry 24, 1842.	† Reinsued Doc. 10, 1839.	; Antodated March	2, 1840.

Management of Disconness.	PATEMENTA.	RESIDENCE.	WHEN IMPED.
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Spar bits See Augur.		D 1:	
Spurs, improvement in	Charles C. Reinhardt.	Baltimore, Md	June 24, 1843
iron	Stephen Pope	New York	Nov. 20, 1829
Steel, cast, or iron	Horatio G. Spafford Horatio G. Spafford	Albany, N. Y Albany, N. Y	Oct. 30, 1822 Oct. 30, 1822
Steel, cast, scrap or bar iron, con-	, , , , , ,	_	
verted into	Samuel Collins Danjel Pettibone	Troy, N. Y Boston, Mass	April 10, 18 23 Aug. 21, 1819
Steel, converting iron partially into Steel, converting iron partially into	Ebenezer Jenks Eleazor L. Losey	Colebrook, Conn NewBrunswick,N.J.	Jan. 28, 1816 Nov. 20, 1823
Steel, converting iron parti'ly into*	Walter R. Johnson	Philadelphia, Pa	June 30, 1838
Steel, increasing the strength of Steel, from pig iron	Walter R. Johnson Enoch Leonard	Philadelphia, Pa Canton, Mass	July 9, 1838 Jan. 6, 1812
Steel and iron, manufacture of	Charles Low	England	May 28, 1846
			English pat't dated May
Sa. 3			25, 1844.
Steel, cast, manufacture of	Josiah M. Heath	London, England	Oct. 24, 1846; English pat't
!			dated Febru-
Steel, manufacture of	Simeon Broadmeadow	New York	ary 4, 1845. May 25, 1844
Steel, mode of hardening	Perry Davis	Fall River, Mass	Aug. 4, 1841
Steel, revolving	Benjamin E. Hoyt Collins Manufacturing	lpswich, Mass	Aug. 20, 1834
	Company, assignee of Elisha H. Root	Collinsville, Conn	Mar. 10, 1843
Steel, tempering	David Hartley	Westminster, Engl'd	Feb. 24, 1792
Steel, tempering, for cutting glass. Steel, welding to iron	Benjamin Duvall D. Pettibone, Zz. Chap-	Virginia	Feb. 14, 1799
	man, and J. Nichols	Albany, N. Y	Dec. 22, 1802
Steel, welding to iron	Daniel Pettibone Benjamin King	Roxbury, Conn Washington, D. C	Mar. 22, 1806 Nov. 15, 1811
StirrupeStirrupe, iron	Daniel Adams	Keene, N. J Baltimore, Md	
Stirrups for paddle wheels of steam	Daniel Powles	Datumore, Mu	Jan. 20, 1021
and other boats, machine for bending	Alexander B. Latta	Cincinnati, Ohio	Mar. 30, 1843
Stirrups for saddles	John Carrel	Petersburg, Va	June 7, 1839
Stove pipe, mouldings, &c., making	A. Pawling John Farrar	Philadelphia, Pa Cuyahoga, Ohio	June 16, 1846 Sept. 2, 1849
Stove pipe, manufacturing	Richard Wheatley and		
Stove pipe, manufacturing	James Beaumont John Colby	Boston, Mass Salisbury, Mass	Nov. 4, 1807 Feb. 16, 1825
Stove pipe, manufacturing	E. Nott	Schenectady, N. Y.	June 29, 1833
Striker, for smith's work	Lewis Stipe	Stokes county, N. C.	Sept. 6, 1833
Striker, blacksmith, assistant Striker, for hammering iron	William B. Dobson Joel Woodel	Surry county, N. C. Jackson, Tenn	April 25, 1834 Aug. 6, 1834
Striker, blacksmiths, for forging			
Tacks, making	Ebenezer Brooks Jesse Reed	Ridgeville, Va Hanover, Mass	Feb. 16, 1843 Aug. 1, 1816
Tea pots, and other messels of Bri	tannia ware, manufacto	ry of.—See Class 17.	
Tew iron	William Barker John Shugert		Nov. 10, 1818 Mar. 31, 18 36
Thimbles	Asa Spencer	New London, Conn.	June 8, 1804
Thimbles, for sailmakers Thimbles, rims, without soldering	Stephen Chandler	New York	Nov. 20, 1807 Feb. 4, 1811
Thimbles, rims	Stephen Chandler	New York	
	Parsons	Massachusetts	April 14, 1804
Tin plate, coating with lead Tin plate, manufacturing	Jos. M. Truman	Philadelphia, Pa	Sept. 29, 1831
I.m., managaning		ir manothmat ra	J, 1014

^{*} Antodated December 80, 1837.

STUDIO DISCOVERING.	PATRICTURE.	námumres.	Wells
Kn -late	4 D-4	N V l.	Elsh 11 28
In plate, manufacturing	Aaron Burk	New York	Feb. 11, 15
In plate ware	Edward M. Converse.	Southington, Conn	July 30, 10
In plate ware, wiring machine	Edward M. Converse.	Southington, Conn	Nov. 19, 19
In ware, manufacturing	Seth Peck	Southington, Conn	April 23, 16
Tin ware, manufacturing	Oliver Hubbard	Claremont, N. H	Nov. 10, 10
l'in ware, manufacturing	Barnabas Langdon	St. Albans, N. Y	May 10, 10
in ware, acaming	James Redheffer	Bridgetown, N. J	Mar. 6, 18
l'in ware, machine for double scam-	Dumes recumentation	D1.0500 m.n, 2.1.0 11.1	,
in wate, macameter deducte scam-	Daniel Manage	Tomimilla Was	Dec 98 10
ing*	Daniel Newton	Lewisville, Ky	Dec. 20, 10
l'in, &c., double seaming	Hiram Van Pelt and		a
	Benj. Armstrong	Troy, N. Y	Sept. 30, 18
rin and other metals, cutting	William Bulkley and		
	Otis M. Imman	Berlin, Conn	Nov. 3, 18
Congs, cast iron	Enos H. Buel	Marlborough, Coan.	Mar. 6, 18
Congs, fire irons	Richard Whittingham	New York	June 8, 18
Cools, edge			Dec. 19, 18
	Horatio G. Spafford	Troy, N. Y	
Cools, machine for grinding	William Hovey	Worcester, Mass	Sept. 23, 18
Cools, holding and guiding	George A. Medeira	Chambersburg, Pa	April 19, 18
lope, pepper and infe	William Markland	New York	Oct. 1, 18
rip hammer	John F. Gould		Mar. 8, 18
Prip hammer	Joel Fox, jr	Middlesex, Mass	Feb. 25, 18
Trip hammer	John Smith	Otsego, N.Y	Oct. 14, 18
Trip hammer		Berkshire, Mass	Jan. 8, 18
Tip hamman	Ezra Osborn		
Crip hammer	Elisha Downer	Depuyster, N.Y	April 11, 18
Trip hammer	Oliver Aimes	Plymouth, Mass	April 25, 18
Trip hammer	Joseph Hines	Providence, R. I	June 16, 10
Trip hammer	Joseph Goulding	Leicester, Mass	March 1, 18
rip hammer	Josiah Beal	Ontario county, N. Y.	Oct. 5, 18
Prip hammer	Stephen Morrill	Readfield, Mass	Sept. 28, 19
Trin kammer		Spencer, N. Y	July 31, 18
Crip hammer	Urban Palmar		
Crip hammer	Jac. Eversol	Botetourt county, Va.	May 3, 18
rip hammer	William Bowling	Harrisonburg, Va	July 1, 18
rip hammer	Elisha Crowell	Gardiner, Maine	Aug. 4, 18
Trip hammer	Philip P. Read	Mercer, Maine	Dec. 7, 18
Trip hammer	Levi Rosenkrans	Big Flat, N. Y	Mar. 17, 18
Prip hammer, foet	E. Pierce and J. Hatha-	, , ,	•
1	way	Pultney, N. Y	Oct. 19, 18
Trip hammer, portable	Samuel Kilburn	Sterling, Maine	Aug. 18, 18
Nin hamman			March 6, 18
Prip hammer	Heman Redfield	Grafton, Mass	
Tuyere, and water back	Oliver Aimes	Plymouth, Mass	June 24, 18
Luyere, and water back	Gideon Davis	Sandy Spring, Md	May 26, 18
Puryere, and water back	Asa Blood	Conhocton, N. Y	Oct. 24, 18
Tuyere iron, blacksmith's †	John Shugert	Elizabeth, Pa	May 9, 18
Cuyere iron, blacksmith's	Elias Kaighn	Kaighn's Point, N. J.	April 2, 18
Cuyere iron, blacksmith's	Riverius C. Stiles and		
, · · · · · · · · · · ·			Dec 14 19
Parana.	Joseph S. Graves	EastBloomfield, N.Y.	Dec. 14, 18
wyere	Calvin McKay	Lyons, N. Y	Nov. 14, 18
Pwyere, blacksmith's	Daniel C. McMillen	Persia, N. Y	Nov. 14, 16
I wyere, or tew iron	Charles W. Grannis	Cellins, N. Y	June 16, 18
Types.—See Class 18.	1	,	1
Type casting See Class 18, Type.	1	i	•
Fyre, railroad locomotive, mode of	D. Saunders, J. G.	1	I
manufacturing.			i
mandavaring.	Bissett, and Samuel	Distahana Da	T-1- 00 10
Yeshaella	Saunders	Pittsburg, Pa	July 28, 18
Imbrella runner	Joseph Barninger	Francisville, Pa	June 25, 18
raust lights, metallic rims for	Edward Kockwell	New York	March 8, 18
ressels of soft metal, method of	John Rand	Citizen United States	4 .
making.		now in G. Britain.	Aug. 7, 18
	John Wetherell		April 22, 18
/ 1CB			,,,
/ice	JOHN X Merucan co.	1	Į.
rice	John S. Markam, as-	ì	1
	signee of E. G. Mat-	387	A 11 10
Fice	signee of E. G. Mat- thews.	Worcester, Mass	Aug. 11, 18
	signee of E. G. Mat- thews.	Worcester, Mass Rochester, N. Y.	Aug. 11, 18 May 16, 18

^{*} Antedated July. 7, 1845.

PARTITION OF DISCONSISS.	PATERNIE.	militarion.	WAR WIFED.
Tite, Bench	Jeremiah Peek	Waterbury, Com	Dec. 50, 1873
Vice, behelt, metal	James Keane and Tho-	Walling, Collins	•
***	mas Keane	Haverstraw, N. Y	Aug. 26, 1632
Vice, bench, and other.	Linus Dean	Utica, N. Y	Peb. 16, 1837
Vices, making the jaws of	William Sim	Schenectedy, N.Y.	Oct. 11, 1841
Vies, socker	Enoch D. McCord	Sullivan, N. H Sandy Hill, N. Y	Sept. 4, 1838 Oct. 1, 1839
Vice, superior	James Lang	Harrison county, Pa.	Jan. 10, 1834
Ware.—See Tin.		, , , , , , , , , , , , , , , , , , , ,	10, 1001
Window blind fasteners	Mileden M. Isbel	New Haven, Ct	June 28, 1835
Window blind fasteners*	Sylvanus Fansher	Southburg, Ct	April 10, 1841
Window blinds, fastener	James A. Carver	Taunton, Mass	Feb. 27, 1830
Window blinds, fastener	Jonathan Bason	Bedford, Mess	April 28, 1836
Window blinds, fastener	Elijah Jaquith	Brattleberough, Vt.	Dec. 26, 1837
Window blinds, securing Window blinds, spring outch	Wm. H. Mackrell William Phelps	Bushwick, N. Y Salem, Mass	June 13, 1831 July 7, 1835
Window blinds, and door	Seril Steere	Gloucester, R. I	Mar. 25, 1835
Window each, rule joint for	Noble Hardle	Georgetown, D. C	Oct. 1, 1918
Window catch, and door fastening	Stephen Haywood	Plainfield, Mass	Oct. 17, 1025
Window catch, and door fastening		New York	July 21, 1831
Window fastening	Marcas Merriman, jr.	New Haven, Ct	June 20, 1836
Window fastening	Enoch Robinson and	D	S 11 1041
Window factoring, combined ento	Wm. Hall	Boston, Mass	Sept. 11, 1841
Window fastening, combined sp'g Window fastening, self-adjusting	Phillippe F. Hazard	Philadelphia, Pa	July 11, 1837
spring	Holly Seely	Unadilla, N. Y	July 14, 1828
Window sash, bolt and spring	Marcus Merriman, jr.	New Haven, Ct	April 14, 1835
Window sash, cast iron	Isaac McNary	Stafford, Ct	Feb. 23, 1828
Window sash, cast iron	James S. Stoddard	Macedon, N. Y	Oct. 14, 1835
Window sash, and shutter fasten'g		Connecticut	Dec. 4, 1802
Window sash, fastening	Jacob Osborn	Connecticut	Nov. 24, 1803
Window sash, fastening Window sash, springs	Daniel M. Miller	Haddam, Ct	Mar. 8, 1804 July 1, 1803
Window sash, springs	Samuel J. Kemp James Curtis	Norwalk, Ct Massachusetts	July 1, 1803 Dec. 10, 1803
Window sash, springs	Joseph Eaton	Boston, Mass	April 14, 1804
Window sash, springs	John Ballthorpe		May 22, 1811
Window sash, spring bolt	Nathaniel Briggs	New York	Oct. 13, 1813
Window sash, spring fastener	George W. and Ezra		n
Window and and a selection of	B. Robinson,	Boston, Mass	Feb. 7, 1842
Window sash, spring and catch Window sash, sp'g for upper sash	Menson L. Stevens	Waterbury, Ct Lewisburg, Pa	Jan. 9, 1835 Sept. 8, 1837
Window shutter, fastening	Henry Hammond James Blanchard	New York	Jan. 14, 1809
Window, shutter fastening	B. West and P. Soper.	Rome, N. Y	Jan. 31, 1822
Window, shatter fastening	Nathaniel Briggs	New York	Oct. 21, 1824
Window, shutter fastening	Truman Bartholomew	New York	Feb. 19, 1828
Window, shutter fastening	Neal Hall and Jotham	Cumberland & York	0., 10
Window shutter fortesing	Chase.	co., Maine	Oct. 11, 1836
Window, shutter fastening Window, shutter fastening	Truman Bartholomew	New York	June 30, 1829 Dec. 30, 1841
Window shutter & blind fast'ners	Thomas C. Cary James P. McKean	Washington, D. C	April 24, 1841
Window spring	Isaac Scott	New Haven, Ct	Dec. 26, 1804
Window spring	George Cannen	Nantucket, Mass	Dec. 27, 1810
Window spring	Gideon Drake	Hartford, Ct	Oct. 26, 1818
Window spring	Hez. Salisbury, jr	Brattleborough, Vt	May 24, 1819
Window spring, boit and key	Roger Smith	Norwich, Ct	Mar. 8, 1810
Window spring, bolt	Shadrach Trumbull	Suffield, Ct	April 23, 1816 June 20, 1838
Window spring, fastener Wire.—See Metal.	Jonathan Bacon	Bedford, Mass	June 20, 1838
Wire, cap	Melville Kelsey	New York	Mar. 12, 1836
Wire, cuiting	Abiel Stevens	Andover, Mass	Nov. 11, 1828
Wire, cutting and heading	Thomas W. Harvey		Mar. 25, 1837
Wire, drawing	William Wadsworth .	Hartford, Ct	Oct. 6, 1812
Wire, drawing	John T. & T. Walden		Oct. 31, 1819
Wire, drawing			

^{*} Antecated Dec. 10, 1849.

INVENTIONS OR DESCOVERIES.	Patriyum.	R.JOHANNECO'S.	VERN 200440.
Wire, drawing, card and other Wire, fences and nets	Russel Prouty Chauncey Hall	Spencer, Mass Meriden, Ct	Jan. 19, 1622 Nov. 27, 1826
Wire gauze, looms for weaving Wire, machine for beating and	Melchoir Bretzger	Pittsburg, Pa	Dec. 5, 1846
cleaning	John J. Howe	Derby, Ct	Dec. 26, 1845
Wire, rolling	James Howell R. S. Newall	Philadelphia, Pa Gateshead, upon	June 11, 1819 Aug. 26, 1846;
At ite lobes, macinic for manie.	I L. D. LICWALL,	Tyne, England.	English patent
Tiring many nound flowible	Isaac McCord	Harrisburg, Pa	Mar. 6, 1843. July 6, 1839
Wire rope, round flexible Wire, from steel, copper, &c	Thomas Wallace	Haverstraw, N. Y.	Mar. 28, 1834
Wire, weaving	T. Kirk and J. Leslie.		May 9, 1799
Wire, winding and spinning Wrench, rack	Henry Burke Henry King	Philadelphia, Pa Springfield, Mass	June 18, 1810 Oct. 25, 1832
Wrench, rack	Solyman Merrick	Springfield, Mass	April 18, 1834
Wrench, rack	Alonzo G. Hull	Troy, N. Y	June 20, 1836
Wrench, screw*	Solyman Merrick Samuel Davis	Springfield, Mass New York	Aug. 17, 1835 April 18, 1831
Zinc, or spelter, manufacture	Samuel Davis	New York	Aug. 11, 1831

^{*} Reissued May 17, 1842;

CLASS No. III.

MANUFACTURES

0F

Fibrous and Textile Substances, including machines for preparing Fibres of Wool, Cotton, Silk, Fur, Paper, &c.

LIST OF PATENTS.

CLASS III.—MANUFACTURES of Fibrous and Textile Substances, including Machines for preparing Fibres of Wool, Cotton, Silk, Fur, Paper, &c.

INVENTIONS OR DISCOVERIES.	Patentees.	residence.	WHEN ISSUED.
Asclepias syriaca, manufacturing			
external fibres	Margaret Gerrish	Salem, Mass	Mar. 27, 1834
Bags, for separating claime and	mangaret derrish	Salcin, Mass.	144. 21, 1001
stearine by pressure	Martin H. Shepard	Cincinnati, Ohio	May 26, 1843
Blankets	Elkanah Cobb	Georgetown, D. C.	April 29, 1812
Blankets	Jac. Getzendenner	Frederick co., Md	Sept. 30, 1814
Blankets, and cloth	A. Barnes, S. Gray, &	Production co., Ida	Dept. 00, 1011
Diamets, and Clour.	Jabez Clark	Windham, Ct	Feb. 3, 1813
Bobbin, cotton spool	Nathaniel Rider	Milbury, Mass	Dec. 31, 1833
Bobbin, and flyer	Charles Danforth	Ramapo, N. Y	Sept. 2, 1828
Bobbin, and flyer, Canton woollen		Canton, Mass	Jan. 30, 1829
Bobbin machine	James A. Post	Warwick t'ns'p, N.Y	April 23, 1828
Bobbin tube	Job Manchester	Warwick, R. I	Dec. 13, 1824
Bobbin tube	Benj. Hutchinson	Philadelphia, Pa	Oct. 18, 1827
Bonnets, &c., machinery for press-	Deng. 11th confident	I induscipata, I a	200. 20, 200.
ing	Richard Murdock	Baltimore, Md	Oct. 12, 1842
Bonnet, portable	Thomas Hammond	New York	Oct. 30, 1844
Bonnet tips, pressing apparatus for	Thomas Kendall	New York	Sept. 3, 1844
Braid, machinery for pressing braid	Thomas Hendan	110W 101E	Dops. 0, 1011
after it has been trimmed	Henry H. Robbins	Middleboro', Mass	April 10, 1841
Braid, machinery for trimming	22001.9 12. 20000000000000000000000000000000000	middleboro , middle.	p
straw braid	Henry H. Robbins	Middleboro', Mass	Feb. 18, 1841
Braiding machine	Dudley D. Sacket	Westfield, Mass	Jan. 22, 1840
Braiding machine, braiding ma-			
nilla.	Fitzgerald	New York	April 24, 1846
Braiding	John Thorp	Providence, R. I	Aug. 10, 1821
Braiding	John Thorp	Providence, R. I	July 10, 1826
Braid, Tuscan, &c., weaving	Elisha Fitzgerald	New York	Oct. 16, 1844
Brushes for cotton gins	Edwin Keith	Bridgewater, Mass	Sept. 19, 1845
Burrs, cleaning from wool, & seed		" '	• •
from cotton	Theodore Eli	New York	Sept. 14, 1843
Burrs, &c., picking and separating,			
also applicable to ginning cotton"	Francis A. Calvert	Patterson, N. J	June 3, 1843
Burring machine	Thos. S. Washburn	Lowell, Mass	Oct. 11, 1845
Burring machine	Alanson Crane	Lowell, Mass	Oct. 11, 1845
Calico, &c., printing	Godfrey Woone	London, Eng	April 2, 1838
Calico, &c., printing	Bennet Woodcroft	Hardwick, Eng	April 5, 1838
Calico, &c., printing	Alden Sibley	Pawtucket, Mass	July 9, 1836
Calico and paper, printing	Leonard Beatty	Wilkesbarre, Pa	Dec. 28, 1810
Cans, cotton	Horatio Moses	Patterson, N. J	Mar. 12, 183
Cans, cotton	William A. Crocker	Taunton, Mass	June 3, 1834
Cans, shoe	James Dennis	Providence, R. I	Sept. 8, 1834
Cap, substitute for fliers	Joseph Ripka	Manayunk, Pa	July 31, 183
Cap spinner	Jacob Peters	Kensington, Pa	June 6, 184
Carding, composition, applied	Ziba Parkhurst	Grafton, Mass	Aug. 19, 182
Carding, cotton	Wm. B. Leonard	Fishkill, N. Y	. Sept. 16, 183
Carding, drawing and roping	William Tiffany and		
	P. Allen	. Otsego, N. Y	July 17, 181
Carding enginet	John Boynton	. South Coventry, Ct.	July 12, 184
Carding engine, feeding or deliver			1
ing rollers of.	N. D. White, ass'ee:		
	of H. Barbour	. Lowell, Mass	J May 19, 184

^{*} Reissued Dec. 27, 1843.

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INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHIN SHIPED.
Cardina annina mashinara for			
Carding engine, machinery for		Court Poissin	Dab 10 1942
making laps for feeding	John Mason	Great Britain	Feb. 10, 1843
Carding engine*	Charles Pooley	Choriton upon Med-	A 00 1046
Claudia - Caralandan armon	Yaman III	lock, G. B	Aug. 22, 1846
Carding, for gleaning savers	James Hugus	Greenbush, Pa	Sept. 15, 1815
arding hair of neat cattle	Arthur Kimball	New York	Nov. 4, 1813
Carding hats, fur and wool	Arnold Buffum	Dodham Mass	Feb. 21, 1807
Carding hats, wool	Abner Guild	Dedham, Mass Shoreham, Vt	Mar. 31, 1806 May 25, 1811
Carding machine	Heman Palmerler		Feb. 6, 1813
Carding machine	John Jessup Joshua Woodward	Orange co., N. Y Portage, Ohio	May 2, 1821
Carding machine	Nathaniel Rider	Sturbridge, Mass	Mar. 12, 1825
Carding machine	Elijah Thompson	Lowell, Mass	June 9, 1826
Carding machine	James H. Arnold	Bellemont, Ohio	Sept. 25, 1826
Carding machine	John Tillou	Newton, Ct	Sept. 8, 1827
Carding machine	Henry A. Shannon	Columbia co., N. Y.	April 5, 1828
Carding machine	D. M. Bacon	Huntington, Pa	April 10, 1898
Carding machine	John Boynton	South Coventry, Ct.	April 11, 1829
Carding machine	J. W. Shankland	Summerfield, Ohio	May 5, 1829
Carding machine	Uriel G. Warner	Ripley, Ohio	Oct. 1, 1830
Carding machine	P. L. King and E. B.		
B	Blasdell.	burg township, Ia.	Oct. 14, 1839
Carding machine	Robert Bartlett	Ripley, Ohio	Oct. 25, 1832
Carding machine	Luther Colburn	Fairfield, Vt	Nov. 20, 1832
Carding machine, packing sheets		,	
of leather on cylinders	Joshua Lamb	Leicester, Mass	Ang. 21, 1819
Carding machine	M. W. Obenchain	Springfield, Ohio	July 20, 1846
Carding machine	Charles Bishop	Newtown, Ct	Sept. 26, 1846
Carding machine	Hugh Whiteman	Pittsburg, Pa	Feb. 12, 1845
Carding machine, self-stripping		•	•
card for carding fibrous sub-	Gleason	Lowell, Mass	Dec. 4, 1844
stances.			
Carding machine, wool	Nathan Freeman	Lowell, Mass	Dec. 31, 1839
Carding machine, wool, cotton, &c			
	Alanson Crane	Lowell, Mass	
Carding machine, wool, cotton,&c.	Joseph Munroe	Palmer, Mass	Oct. 11, 1841
Carding machine, wool, condenser		37 . 37 77	0 . 11 1043
for	Levi L. Gowdy	Montgomery, N. Y.	Oct. 11, 1841
Carding rolls, cotton, forming	C. Whiting, S. Lowder,	D. 31 36	T 05 1004
O !! !!-	& S. Lowder, jr	Dedham, Mass	June 25, 1824
Carding, rolls, preserver	Charles Atwood	Middletown, Ct	Nov. 1, 1830
Carding, spinning, and roping	T. Norton and G. Bid-	Marie I De	A
Cardina and animaina most	dis	Milford, Pa	April 15, 1813
Carding and spinning wool	Anson Holmes	Pomfret, N. Y	Jan. 8, 1810
Carding and spinning wool	Philo C. Curtis	Paris, N. Y	Oct. 15, 1823
Carding and spinning machines	Moses Chase	Baltimore, Md	Mar. 23, 1842
Carding wool	John Boynton	South Coventry, Ct.	Mar. 11, 1833
Carding wool	Calvin Wing David Adams	Gardiner, Me	Oct. 21, 1830
Carding wool		Richmond, Va	July 29, 1833
Cards, boards	Homer Whittimore	Newton, N. Y	April 27, 1832
Cards, boards, smoothing	Daniel Stearns	Brattleborough, Vt.	Mar. 10, 1814
Cards, and can hoops, bending	John Butterworth William Barker	Philadelphia co., Pa.	
Cards, cotton and wool	Edward Faber	Smithfield, R. I Pittsburg, Pa	Jan. 24, 1832
Cards, cotton and wool, composi-	Edward I abel	i itabuig, i a	Jan. 24, 1004
tion for preparing	John M. Gates	Warren, Mass	Sept. 14, 1815
Cards, cut, prick, and set	Reuben Merriam	Leicester, Mass	
Cards, cylinders.	Joshua Lamb	Leicester, Mass	Aug. 21, 1819
Cards, grinding and facing	Gideon Drake	Windsor, Ct	
Cards, grinding and straining	John Boynton	Windham, Ct	
Cards, woolt	Amos Whittemore	Massachusetts	
Cards, wool	George Faber	Canton, Ohio	
Carding wool.	Benjamin Standring	New Hampshire	June 28, 1803
Carding wool			

^{*} Date of English patent, Nov. 17, 1845. † Antedated Jan. 20, 1846. ‡ Renewed by Gong., Mar. 3, 1869.

THYENGOUNG OR DISCOVERNMAN	PATROPINO.	matiskista.	WHEN MINE
Carding wool	George Booth	Poughkeepsis, N. Y.	Oct. 13, 184
Carding weol	Lewis French	New Haven, Ct	May 18, 181
Carding wool	E. Hale, jr., S. Hale,	,	,,
J	and James Hale	Haverhill, Mass	Feb. 18, 189
Carpet, canvass, design for	J. D. Edwards	Elizabethtown, N. J.	Mar. 20, 184
Carpet, design for	John P. Ferguson	Thompsonville, Ct	Oct. 20, 1
Carpets, painted, design for	James Albro, jr	Elizabethtown, N.J.	Oct. 6, 184
Carpets, design for	Henry G. Thompson.	New York	April 4, 184
Carpet, felt	Aaron Byington	Herkimer, N. Y	May 6, 182
Carpet, ingrain	John and N. Haight.	New York New York	Aug. 12, 182 Feb. 12, 182
Carpet, ingrain	William A. Prince William Sherwood	Summersworth, N.H	April 20, 183
Carpet, paper	Francis Guy	Bakimore, Md	Feb. 23, 181
Carpet, woollen	William Harrington	Harrison, N. Y	Mar. 3, 182
Carpet, woollen	William Harrington	Harrison, N. Y	June 11, 182
Carpeting and rugs	John Humphreys	New York city	Dec. 10, 183
Carpets, weaving	William Sherwood	Ridgefield, Ct	July 20, 184
Cloth, brushing and winding	Reuben C. Varnel	West Somers, N. Y.	Mar. 13, 184
Cloth, dressing, finishing	Zachariah Allen	Providence, R. I	Feb. 23, 183
Cloth, dressing, singeing	A. Robeson	New Bedford, Mass.	Sept. 8, 182
Cloth, dressing, sizing	Paul Moody	Waltham, Mass	Jan. 17, 181
Cloth, dressing, wool and cotton	Calvin W. Cook	Lowell, Mass	April 23, 183
Cloth, dressing	Isaac Sanford	Connecticut	Mar. 27, 179
Cloth, dressings	Seth Hart	Hempstead, N. Y	July 27, 181
Cloth, dressing	Calvin W. Cook	Lowell, Mass	May 20, 183
Cloth, dreming	Stephen R. Parkhurst.	Mendon, Mass	Dec. 23, 183
Cloth, dressing, calendering	Zenos Bliss	Johnston, R. I	Oct. 17, 183
Cloth, drying	Joseph Hurd	Boston, Mass	Jan. 23, 183
Cloth, drying, by steam rollers	Duncan Wright	Medway, Mass	Aug. 31, 182
Cloth, felting apparatus Cloth, finisher	John Andrews J. C. Carlisle	Bellville, N. J	Jan. 31, 184
Cloth, folding and measuring	Joel Spalding	Armagh, Pa Morristown, Vt	Oct. 21, 184 Aug. 28, 184
Cloth, folding and measuring, ma-	Joer Speaking	MOITISTOWN, VC	Aug. 20, 104
chinery for	Silas C. Durgin	N.Chelmeford, Mass.	Mar. 9, 184
Cloth, forming the web without	2.2 0v = a g v v v		1.5 0, 101
spinning or weaving	John Arnold	Norwalk, Conn	July 15, 182
Cloth, mangle	Thomas Rundle	Boston, Masa	Nov. 11, 183
Cloth, manufacturing	J. P. & R. G. Hazard.	Providence, R. I	
Cloth, manufacturing	Henry Raymond	New York	June 27, 189
Cloth, manufacturing	N.Peck &D. Taylor	Fairfield, Conn	June 27, 18
Cloth, manufacturing	Freeman Wolcott	Stow, Mass	July 21, 183
Cloth, manufacturing, of flax and			
Wire	Peter Laporte	Augusta county, Va.	July 12, 183
Cloth, machine for measuring on	77 777 77	N. Obalance at Manager	7 0 70
the loom	F. W. Howe	N. Chelmsford, Mass	June 6, 134
Cloth, napping and making water- proof	William K. Phipps	Framingham, Mass.	Aug. 31, 185
Cloth, ornamenting.	James C. Wood	Philadelphia, Pa	Dec. 14, 186
Cloths, printing, floor, design for.	J. Albro, jr	Elizabethtown, N.J.	Dec. 20, 184
Cloths, printing, floor, design for.	J. Albro, jr	Elizabethtown, N.J.	Dec. 20, 184
Cloths, printing, floor, design for .	J. Albro, jr	Elizabethtown, N.J.	Dec. 20, 184
Cloth, &c., reducing worn out	Reuben Daniels	Woodstock, Vt	Oct. 10, 18
Cloth, acouring	Thomas L. Jennings	New York	Mar. 3, 18
Cloth of all kinds, sewing, with a	J		1
running stitch	Benjamin W. Bean	New York, N. Y	Mar. 4, 184
Cloth, stretching, in the process of	Baxter D. Whitney &	1	1
fulling.	Geo. W. Lawton	Winchendon, Mass.	Mar. 25, 184
Cloth, taking wrinkles out of, while			_
fulling	John Tillou	New Haven, Conn	
Cloth of various kinds, manufac'g			Oct. 8, 18
Cloth, washing, in calico printing?		Tiverton, R. I	April 4, 184
Cloth, winding up	J. Goulding and R.	D . 35	
mana and a second	Brackett		Nov. 30, 18
Ceach lace, loom, Bigelew's powert	F. B. Bigelow	Boston, Mass	April 20, 18
* Reissued Jan. 93, 1834.	† Antedated, Oct. 4, 1845	. ‡ Reigsued Sept. 26,	Google

gavengreess or directions.	PATHOTOGRA.	antenance.	west	i s ipi	WED.
Occooneries, lodgments in, &c	Sol. M. Jenkins, M.D.	Easton, Md	Sept.	96,	1839
Cocooneries, removing the filth					1046
from hurdles	Benjamin Benson	Smyrna, Del			1840
Cordage	George Parkinson	Pennsylvania			1794 1795
Cordage	John Pittman R. Fulton & N.Cutting	Rhode Island New York,			1808
Cordage	Abel Hill	Walpole, N. H			1819
Cordage	Charles L. Sargeant	Suffolk, Mass	Oct.		1817
Cordage	St. & James A. Bazen.	Canton, Mass	Oct.		1817
Cordage	William B. Leonard	Fishkill, N. Y	Jan.		1819
Cordage	Robert Colbert	Boston, Mass	Mar.	17,	1819
Cordage	Robert Graves Robert Graves	Boston, Mass Boston, Mass			1819 1820
Cordage	Robert Graves	Boston, Mass	Feb.		1821
Cordage	Franklin Kellsey	Middletown, Conn	Feb.		1825
Cordage	Erastus Bartholomew.	Boston, Mass			1826
Cordage	Robert Graves	Brooklyn, N. Y			1827
Cordage	John Drummond	Brooklyn, N. Y	July	22,	1833
Cordage, clothes line, straining and		D	DT	oc	1040
preserving.	dreth	Boston, Mass	MOA.	20,	1840
Cordage, laying and spinning ropes for cables	William Shultz	Baltimore, Md	June	24.	1809
Cordage, laying and twisting seine	1	Dalamoro, Marie	- 440	~-,	2000
twine	Joseph Clarkson	Baltimore, Md	Aug.	16,	1826
Cordage, long, manufacturing	William E. Maginnis.	Philadelphia, Pa	Nov.	9,	1839
Cordage, manufacturing	Alfred Hathaway	Boston, Mass	July		1839
Cordage, pressing tar out of	Thomas Barnitt	Philadelphia, Pa	May	20,	1822
Cordage, rope	Edward S. Townsend and Philo Durfee	Palmyra, N. Y	Jan.	6	1831
Cordage, rope	William Stone, jr	Williamson co. Tenn			1831
Cordage, rope	Daniel Treadwell	Boston, Mass	Feb.		1834
Cordage and rope	William Fanning	New York	Feb.		1836
Cordage, rope, forming & laying	George Bradley	Fishkill, N. Y	Dec.		
Cordage, rope, layer	David Myerle	Philadelphia, Pa	Mar.	3,	1827
Cordage, rope, laying	John Goulding Michael Wigglesworth	Boston, Mass Massachusetts	Oct. June		
Cordage, rope, making Cordage, rope, making	John Sellers & A. Barde		May		
Cordage, rope, making	Eleazer Crain	Springfield, Vt	Jan.		
Cordage, rope, making	Stephen Hills, 2d	Glastenbury, Conn.			
Cordage, rope, making	J. Whiteman	Philadelphia, Pa	Jan.	15,	18 36
Cordage, rope, preserving.—See	Composition, Class 4.				
Cordage,rope,Readie's guage plate	Robert Graves	Boston, Mass	Dec	21	1910
Cordage, rope, reeding	A. Boring and William	Doston, Mass	Dec.	J1,	1013
	W. Jones	Thornville, Ohio	May	5,	1828
Cordage, rope, serving	James Fales	New Bedford, Mass.		20,	1835
Cordage, rope, serving	Adam Montgomery	New York	Mar.	18,	1836
Cordage, rope, serving	Charles Parke	New York			
Cordage, rope and twine	Stephen Gorham John Heaven	Massachusetts	Feb.		
Cordage, rope and twine	Sam'l F. Dexter and	Monigomery c.h., Va	Aug.	10,	1019
orango, topo and owner.	Sam'l Graves	Auburn, N. Y	Aug.	24.	1836
Cordage, rope, twisting strand	Moses Day	Roxbury, Mass	Feb.	7,	1838
Cordage, rope yarn	John Pittman	Medford Mass	Mar	14	1217
Cordage, rope yarn, putting up	James H. Echols	Lynchburg, Va	Oct.	20,	1836
Cordage, rope yarn, spinning	John Pittman	Woode Island	Dec.	24,	1799
Cordage, rope yarn, spinning Cordage, rope yarn, spinning	Nathaniel Cutting Sidney B. Whitlock	New York	Ang.	25,	1837
Cordage, rope yarn, spinning and	Christian Berg & Peter	ATOM A VIRIOUS	urag.	٠٠,	-007
winding.	Schermerhorn, jr	New York	July	2,	1811
Cordage, rope yarn, tarring	Daniel Treadwell				
Cordage, small, and seine twine					
, ·	of Alson Pond		Mar	00	1090
•	or tribuit filler	Petersburg, Va	way	æ∪,	1034

Cotton, cleaning	· 1867MANUSCHIE OR DESCRIPTION.	Parantina.	Missieron.	WHEN MOUND.
Cordage, twine, and cord. Cordage, twine, and cord. Cotton, cleaning Cotton manufacture Cotton Co	Cordage, silk weed for	George Smith.	New York	May 98 1970
Cordage, tow line, &c. Cordage, twine, and cord. Cordage, twine, and cord. Cotton, cleaning and cord. Cotton, cleaning anginned. Cotton, cleaning anginned. Cotton, cleaning. Cotton, cleaning. Cotton, cleaning. G. F. Saltonstall. Charleston, S. C. May 17, 18 Charleston, S. C. May 17, 18 Charleston, S. C. May 17, 18 Charleston, S. C. Challogan. Charles and Charles and Charles and Charles and Cotton and Cotton, cleaning. Gotton, cleaning. G. F. Saltonstall. G. F. Saltonstall. G. F. Saltonstall. North Carolina. May 14, 18 Charleston, S. C. May 17, 18 Charleston, S. C. Marshfield, Mass. Gotton, Marshfield, Mass. Gotton, Marshfield, Mass. Gotton, Marshfield, Mass. Gotton, Marshfield, Mass. Go	Cordage, top sled for		Boston, Mass.	Mar. 28 189
Cotton, cleaning			Caroline, N. Y	Dec. 29, 1831
Cotton, cleaning unginned. Cotton, cleaning unginned. Cotton, cleaning unginned. Cotton, cleaning unginned. Cotton, cleaning Gotton, cleaning Gotton wadding. Cotton, cleaning Gotton Gotton Gotton, cleaning Gotton Gotton, cl			Sloatsburg, N. Y	Nov. 9, 1839
Cotton, cleaning	Cetton bats or laps, making		g ,	, , , , ,
Cotton, cleaning magnined Cotton, cleaning magnined Cotton, cleaning G. F. Saltonstall Cotton, cleaning G. G. F. Saltonstall Cotton, cleaning G. F. Saltonstall Cotton, cleaning G.		C. Kellogg	New Hartford, Ct	Feb. 20, 1843
Cotton, cleaning G. F. Saltonstall North Carolina Sept. 2, 16 Cotton, cleaning Junes Simonds & Jas. McJames Cotton, deaning Junes Cotton, cleaning Junes Simonds & Jas. McJames Cotton, imspecting machine Lewis Viales Junes Cotton, muniforture John T. Sharrock Winchester, Va. June 20, 18 Cotton, separating trash from Cotton, separating trash from Cotton, simprovement in spinning John Simith John Simith John Simith July 25, 18 Cotton, wadding or batting, manufacture of Cotton, wadding or batting, manufacture of Cotton, wadding or batting, manufacture of Cotton whippers and cleaners June A. Davis, adm'x of Henry G. Davis, adm'	Cotton, cleaning	Bornt Seguine	New York, N. Y	July 3, 1543
Cotton, cleaning G. F. Saltonstall North Carolina May 14, 16 Cotton, cleaning G. F. Saltonstall North Carolina May 14, 16 Cotton, cleaning G. G. F. Saltonstall Sames Simonds & Jas. McJames Simonds & Jas. McJames Simonds & Jas. McJames Ged George T. Salter Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Salter Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Salter Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Salter Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Salter G. George G. Amos Gilliam G. Ged G. George	Cotton, cleaning unginned		Mobile, Alabama	July 20, 1843
Cotton, cleaning G. F. Saltonstall North Carolina May 14, 16 Cotton, cleaning G. Gr. Saltonstall Lames Simonda & Jas. Marmes G. Marchael C. Cotton, cleaning G. Gorge T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. George T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. Gorge T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, cleaning G. Gorge T. Sadler. Lawrence co. Ala. Mar. 10, 18 Cotton, manufacture. Lohn T. Sharrock Marshfield, Mass. Seed G. Gotton G. Gotton manufacture. Lohn T. Sharrock G. Marshfield, Mass. Dec. 29, 18 Cotton manufacture. Lohn T. Sharrock G. Marshfield, Mass. Cott. 29, 18 Cotton manufacture. Lohn T. Sharrock G. Marshfield, Mass. Cott. 29, 18 Cotton manufacture. Lohn T. Sharrock G. Marshfield, Mass. Dec. 29, 18 Cotton manufacture. Lowrence G. Marshfield, Mass. Cott. 29, 18 Cotton manufacture. Lowrence G. Marshfield, Mass. Cott. 29, 18 Cotton manufacture. Lowrence G. Marshfield, Mass. Cott. 29, 18 Cotton manufacture. Lowrence G. Marshfield, Mass. Cott. 29, 18 Cotton manufacture. Lowrence G. Marshfield, Mass. Cott. 29, 18 Cotton manufacture. Lowrence G. Marshfield, Mass. Cott. 29, 18 Cotton manufacture. Lowrence G. Marshfield, Mass. Cott. 29, 18 Cotton manufacture. Lowrence G. Marshfield, Mass. Cott. 29, 18 Cotton wadding, graph G. Gotton Marshfield, Mass. Cott. 29, 18 Cotton wadding, graph G. Gotton Marshfield, Mass. Cott. 29, 18 Cotton wadding, graph G. Gotton Marshfield, Mass. Cott. 29, 18 Cotton wadding, graph G. Gotton G. Marshfield, Mass. Cott. 29, 18 Cotton wadding, graph G. Gotton G. Marshfield	Cotton, cleaning	G. F. Saltonstall	North Carolina	Sept. 2, 1801
Cotton, cleaning	Cotton, cleaning		North Carolina	May 14, 1803
Cotton, cleaning Gotton, cleaning Jesse Reed Marshfeld, Mass. Jesse Reed Marshfeld, Mass. Aug. 10, 18 Jesse Reed Marshfeld, Mass. Aug. 10, 18 Cotton, inspecting machine. Lewis Viales. Jesse Reed. Marshfeld, Mass. Aug. 10, 18 Cotton, manufacture. Elisha Congdon. John T. Sharrock Cotton, manufacture Elisha Congdon. John T. Sharrock Cotton, covering, laying in cans. John T. Sharrock Cotton, warding. John T. Sharrock Cotton, warding. John Park & William S. Peck James Beaumont. Johnson, adm's of A. S. Wolcott, deceased James Beaumont. Johnson, adm's of A. S. Wolcott, deceased James Beaumont. Johnson, adm's of A. S. Wolcott, deceased James Beaumont. John Park & William S. Peck Stukely Turner. Cotton, wadding, glazing, pelisset Cotton wadding or batting, manufacture of Cotton wadding, machine for John Park & William S. Peck Stukely Turner. Cotton waste or rags, &c., dressing Cotton whippers and cleaners. Jane A. Davis, adm's of A. Stephen H. Parkhurst. Cotton, wool, &c., burring and cleaning. Stephen H. Parkhurst. Charles Atwood. John Smith. Jo	Cotton, cleaning	James Simonds & Jas.		
Cotton, cleaning Gotton, cleaning Jesse Reed Marshfeld, Mass. Jesse Reed Marshfeld, Mass. Aug. 10, 18 Jesse Reed Marshfeld, Mass. Aug. 10, 18 Cotton, inspecting machine. Lewis Viales. Jesse Reed. Marshfeld, Mass. Aug. 10, 18 Cotton, manufacture. Elisha Congdon. John T. Sharrock Cotton, manufacture Elisha Congdon. John T. Sharrock Cotton, covering, laying in cans. John T. Sharrock Cotton, warding. John T. Sharrock Cotton, warding. John Park & William S. Peck James Beaumont. Johnson, adm's of A. S. Wolcott, deceased James Beaumont. Johnson, adm's of A. S. Wolcott, deceased James Beaumont. Johnson, adm's of A. S. Wolcott, deceased James Beaumont. John Park & William S. Peck Stukely Turner. Cotton, wadding, glazing, pelisset Cotton wadding or batting, manufacture of Cotton wadding, machine for John Park & William S. Peck Stukely Turner. Cotton waste or rags, &c., dressing Cotton whippers and cleaners. Jane A. Davis, adm's of A. Stephen H. Parkhurst. Cotton, wool, &c., burring and cleaning. Stephen H. Parkhurst. Charles Atwood. John Smith. Jo	O	McJames	Charleston, S. C	May 17, 1804
Cotton, cleaning Amos Gilliam Reedy Fork, S. C. Oct. 10, 19 asse Reed Lewis Viales Dohn T. Sharrock Elisha Congdon Norwich, Conn. Mar. 12, 18 Cotton roving, laying in cans John Taham & David Cheetham John Park & William S. Peck Stukely Turner Cotton, wadding John Park & William S. Peck Stukely Turner Cotton, wadding, glazing, pelisset Cotton wadding or batting, manufacture of Cotton waste or rags, &c., dressing Cotton whippers and cleaners Lemery Smith Jane A. Davis, adim'x of HenryG. Davis, dee'd Clark county, Ala. May 16, 18 Cotton, wool, &c., burring and cleaning Silas G. Mumford Stephen H. Parkhurst Charles Atwood John Biddis Pennsylvania May 6, 18 Fabrics , see Class 23, India Rub Fr. Fabrics, water proofing John Biddis Pennsylvania May 6, 18 Fabrics, water proofing Felt, manufacturing John Biddis Samuel E. Foster William Cole Lee, Mass Jan. 23, 18 Cotton whippers and cleaning Samuel E. Foster Samuel E. Foster Samuel E. Foster Samuel E. Foster William Cole Lee, Mass Jan. 23, 18 Cotton waste or rags, &c., dressing Jan. 10, 16 Cotton, wool, &c., burring and cleaning John D. Lounsburg, J. Arnold, J. A. McLean, and G. G. Bishop Thomas R. William Cole Lee, Mass Jan. 23, 18 Cotton waster proofing Thomas R. William Cole Lee, Mass Jan. 23, 18 Cotton waster proofing John D. Lounsburg, J. Arnold, J. A. McLean, and G. G. Bishop Norwalk, Conn July 15, 18 Cotton handled the manufacture of fur hats Levi Van Hoesen Norwalk, Conn July 27, 18 Cotton, Norwalk Conn July 15, 18 Cotton, hardening	Cotton, cleaning	George T. Sadier		Mar. 10, 1823
Cotton, obeaning, Sea Ialand. Jesse Reed. Marshfield, Mass. Aug. 10, 12, 23, 18 Cotton, manufacture. John T. Sharrock. Winchester, Va. June 20, 18 Cotton roving, laying in cans* Jesse Whitehead. John Tatham & David Cheetham Cotton, separating trash from. Cotton, separating trash from. Cotton, improvement in spinning. Cotton, wadding. Johnson, adm's of A. S. Wolcott, deceased James Beaumont. John Park & William S. Peck. Stukely Turner. Cotton wadding or batting, manufacture of Cotton wadding, machine for Cotton, wool, &c., burring and cleaning. Spect Cotton wadding and transverse. Fabrics, figured, manufacturing John Park & William Cole. Cotton, wool, &c., burring and cleaning. Spect Class 23, India Rubber. George John Newbery Tabrics, reducing. John Smith. John Biddis. Pabrics, erducing. John Smith. Shaefferstown, Pa. Aug. 4, 16 Pabrics. See Class 23, India Rubber. George John Newbery Thomas R. Williams Cole. Samuel E. Foster. Brattleborough, Vt. May 25, 16 Pelt, manufacturing or weaving. Thomas R. Williams Cole. Coliver Barret, jr. John D. Lounsburg, J. Arnold, J. A. McLean, and G. G. Bishop. New York. New York. Dec. 8, 16 Pelt cloths, hardening of the manufacture of fur hats. Marnaluke Osborne. Herekiah S. Miller. Philadelphia, Pa. March. 16, 16 Ph	Court cleaning			
Cotton, inspecting machine. Cotton manufacture. Cotton manufacture. Cotton manufacture. Cotton roping. Cotton; roping. Cotton, separating trash from. Cotton, separating trash from. Cotton, wadding. Cotton wadding or batting, manufacture of. Cotton waste or rags, &c., dressing. Cotton whippers and cleaners. Cotton, wool, &c., burring and cleaners. Cotton, wool, &c., burring and cleaners. Cotton, wool, &c., burring and cleaners. Cotton, water proofing. Fabrics, reducing. Fabrics, reducing. Fabrics, water proofing. Felt, manufacturing. Felt, manufacturing, for bottoms of vessels. Felt, papermaker's, washing and cleaners. Felt, papermaker's, washing and cleaners. Felt, papermaker's, washing and cleaners. Felting for wool, without spinning or weaving. Felt making, in the manufacture of fur hats. Lewis Valles. John T. Sharrock. Witheater. Withan Congdon. Winchester, Va. Wanneked. Manchester, Va. Manchester, Vas. New Ork, N. Y. Aug. 8, 18 New York, N. Y. Aug. 8, 18 New Yo	Cotton, cleaning			Oct. 10, 1829
Cotton, manufacture		Jesse Reed		Aug. 10, 1827
Cotton manufacture. Elisha Congdon. Norwich, Conn. Mar. 12, 18 Cotton roving, laying in cans* Jesse Whitehead. Manchester, Va. June 24, 18 Cotton, separating trash from. Cotton, improvement in spinning. Cotton, wadding. John School, deler. John Park & William S. Peck. Stukely Turner. Cotton, wadding, glazing, pelisse Cotton wadding, glazing, pelisse Cotton wadding or batting, manufacture of. John Cotton, wadding, machine for Cotton wasden or rags, &c., dressing Cotton whippers and cleaners. Jane A Davis, adm's of Henry G. Davis, dec'd Clark county, Mass. Cotton, wool, &c., burring and cleaning. Short of the period of the per	Cotton, inspecting machine		New Orleans, La	
Cotton; roping	Cotton manufacture			June 20, 1823
Cotton, separating trash from. Cotton, improvement in spinning. Cotton, wadding. Cotton wadding		Lisna Congdon		Mar. 12, 1824
Cotton, separating trash from. Cotton, improvement in spinning. Cotton, wadding. Cotton wasding. Cotton wasding			Manchester, Va	June 24, 1839
Cotton, separating trash from. Cotton, improvement in spinning. Cotton, wadding. Cotton, wadding. Cotton, wadding. Cotton, wadding, glazing, pelisset Cotton wadding or batting, manufacturing. Cotton wadding, machine for Cotton waste or rags, &c., dressing Cotton whippers and cleaners. Cotton, wool, &c., burring and cleaning. Cotton, wool, &c., burring and cleaning. Cotton, wool, &c., burring and cleaning. Coffer. Silas G. Mumford. Charles Akwood. Charles Akwood. Charles Akwood. Fabrics.—See Class 22, India Rub Fabrics, reducing. Fabrics, water proofing. Fabriss, water proofing. Fabriss, water proofing. Felt, manufacturing. Felt, manufacturing. Felt, washer. Felt, washer. Felting and fulling. Felting and fulling. Felting of wool, without spinning or weaving. Felting for coats, hats. Felt making, in the manufacture of fur hats Felt cloths, hardening. Felt cl	Cotton foring, laying in cans		Dealed-In Burney	37 30 3045
Cotton, improvement in spinning Johnson, adm's of A. S. Wolcott, deceased James Beaumont John Park & William S. Peck Jessing Cotton, wadding, glazing, pelisset Cotton, wadding, machine for Cotton, wadding, machine for Cotton waste or rags, &c., dressing Cotton whippers and cleaners Jeremiah Essex Cotton, wadding, machine for Cotton waste or rags, &c., dressing Cotton whippers and cleaners Jane A. Davis, adm's of A. S. Peck Stukely Turner Cotton, waste or rags, &c., dressing Cotton whippers and cleaners Jane A. Davis, adm's of A. S. Wolcott, deceased James Beaumont John Park & William S. Peck Messung Totton, waster prosent of Cotton, waster or rags, &c., dressing Cotton whippers and cleaners Jane A. Davis, adm's of A. Stukely Turner Cotton, wool, &c., burring and cleaning Jane A. Davis, adm's of A. Stukely Turner July 25, 18 Carnston, R. I. July	Cotton consenting treat from		Rockdale, England .	Nov. 18, 1845
Cotton, wadding. Cotton, wadding. Cotton, wadding, glazing, pelissed Cotton wadding or batting, manufacture of Cotton waste or rags, &c., dressing Cotton whippers and cleaners. Cotton, wool, &c., burring and cleaning. Cotton, wool, &c., burring and cleaners. Silas G. Mumford. Stephen H.Parkhurst. Charles Atwood. Shaefferstown, Pa. I. Shaefferstown, Pa. I. Charles Atwood. Shaefferstown, Pa. I. Shaeff			Panadelphia, Pa	Dec. 31, 1838
Cotton, wadding	cocon, improvement in spinning.		•	
Cotton, wadding			Now Waste N. W.	A 0 1040
Cotton, wadding, glazing, pelisset Cotton wadding, glazing, pelisset Cotton wadding or batting, manufacture of Cotton wadding, machine for Cotton waste or rags, &c., dressing Cotton whippers and cleaners Cotton, wool, &c., burring and cleaning Cotton, wool, &c., burring and cleaning Cotton, wool, &c., burring and cleaning Doffer Doffer Doffer Doffer, circulating and transverse. Fabrics, reducing Fabrics, reducing Fabrics, water proofing Fabrics, water proofing Fabrics, water proofing Falt, manufacturing Pelt, manufacturing, for bottoms of vessels Felt, papermaker's, washing and cleansing Felt, papermaker's, washing or weaving Felting of wool, without spinning or weaving Felting of wool, without spinning or weaving Felt making, in the manufacture of fur hats Felt making, in the manufacture of fur hats Felt cloths, hardening Felt cloths, hardening John Park & William S. Peck Stuklely Turner Staklely Turner Staklely Turner Stuklely Turner Staklely Turner Staklel	Cotton wadding			
Cotton, wadding, glazing, pelisset Cotton wadding, glazing, pelisset Cotton wadding, manufacture of Stukely Turner Stukely Turner Cranston, R. I July 25, 18 Cranston, R. I July 19, 18 Cranston, R. I		James Deaumont	Mass	Dec. 3, 1814
Cotton, wadding, glazing, pelisses! Stukely Turner	Totally wanding	S Dook	Wastmand N V	T1 10 1006
Cotton, wadding, machine for Cotton, wadding, machine for Cotton waste or rags, &c., dressing Cotton whippers and cleaners Cotton, wool, &c., burring and cleaning Doffer Silas G. Mumford Fabrics, figured, manufacturing Fabrics, water proofing Fabrics, water proofing Felt, manufacturing Felt, manufacturing Felt, washer Felting of wool, without spinning or weaving Felt making, in the masufacture of fur hats Felt cloths, hardening Felt cloths, hardening Felt cloths, hardening Felt cloths, hardening Jeremiah Essex Jeremiah Essex Dorrchester, Mass Dorrchester, Mass Dorrchester, Mass Semnington, Vt Felt. Dorrchester, Mass Dorrchester, Mass Semnington, Vt Felt. Dorrchester, Mass Dorrchester, Mass Semuly Smith N'th Sudbury, Mass Sept. 10, 18 Orthon Noth Sudbury, Mass Sept. 10, 18 North Sudbury All Sudbury All Sudbury All Sudbury All Sudbury A	Cotton wadding clazing neligest	Stukala Tuman	Cremeter P I	July 19, 1833
Cotton, wadding, machine for Cotton, wadding, machine for Cotton waste or regs, &c., dressing Cotton whippers and cleaners Cotton, wool, &c., burring and cleaning Cotton, wool, &c., burring and cleaning Doffer Cotton, wool, &c., burring and cleaning Doffer, circulating and transverse. Fabrics, figured, manufacturing Fabrics, reducing Fabrics, reducing Fabrics, water proofing Falt, manufacturing. Felt, manufacturing, for bottoms of vessels. Felt, washer Felt, washer Felting of wool, without spinning or weaving Felting of wool, without spinning or weaving Felt making, in the manufacture of fur hats Felt cloths, hardening Felt cloths, hardening Jane A. Davis, adm'x of Henry G. Davis, adm'x of Henry G. Davis, adm'x of Henry A. Wells Semington, Vt Feb. 10, 18 Beanington, Vt Seanington, Vt Seph. 10, 18 N'th Sudbury, Mass. Sept. 10, 18 Nor. Providence, R. I May 28, 16 Cott. 10, 18 Providence, R. I Mary 28, 16 Cott. 10, 18 Providence, R. I Mary 28, 16 Cott. 10, 18 Providence, R. I Mary 28, 16 Cott. 10, 18 Providence, R. I Nott. 10, 18 Nott. 10, 18 Oct.	Cotton wadding or hetting manus	Stukely Turner	Clauston, R. I	July 25, 1633
Cotton waste or rags, &c., dressing Cotton whippers and cleaners Cotton, wool, &c., burring and cleaning Cotton, wool, &c., burring and cleaning Doffer Doffer Doffer, circulating and transverse. Fabrics, figured, manufacturing Fabrics, water proofing Felt, manufacturing Felt, manufacturing, for bottoms of vessels Felt, washer Felt, washer Felting and fulling Felting of wool, without spinning or weaving Felting for coats, hats Felt making, in the manufacture of fur hats Felt cloths, hardening Felt cloths, hardening Cotton whippers and cleaners Jan. 20, 16 Clark county, Ala May 16, 18 Clark county, Ala May 16, 18 Not. Palovis, ader's of Henry Smith Noth Sudbury, Mass. Sept. 10, 18 Noth Sudbury, Mass. Sept. 10, 18 Clark county, Ala May 16, 18 Clark county, Ala May 28, 18 Frovidence, R. I Doct. 10, 18 Clark county, Ala May 16, 18 Clark county, Ala May 28, 18 Frovidence, R. I Doct. 10, 18 Clark county, Ala May 28, 18 Frovidence, R. I Doct. 10, 18 Forovidence, R. I Mar. 28, 18 Forovidence, R. I Mar. 28, 18 Forovidence, R. I Doct. 10, 18 Clark county, Ala May 16, 18 Forovidence, R. I May 28, 18 Forovidence, R. I Mar. 28 Forovidence, R. I Mar. 28 Forovi	facture of	Ieremiah Feser	Rennington Ve	Fab 10 1046
Cotton waste or rags, &c., dressing Cotton whippers and cleaners Jane A. Davis, adm'x of Henry G. Davis, dec'd Clark county, Ala May 16, 18 Clark county, Ala May 16, 18 May 28, 18 May 16, 18 May 28, 18 May 6, 18 May 16, 18 May 28, 18 May 6, 18 May 16, 18 May 1	Cotton, wadding, machine for		Dorchester Mass	Ton 10, 1040
Cotton whippers and cleaners Cotton, wool, &c., burring and cleaning	Cotton waste or rags &c., dressing			
Cotton, wool, &c., burring and cleaning. Doffer. Doffer. Doffer. Doffer, circulating and transverse. Fabrics, figured, manufacturing. Fabrics, reducing. Fabrics, water proofing. Felt, manufacturing, for bottoms of vessels. Felt, washer. Felting and fulling. Felting of wool, without spinning or weaving. Felt making, in the manufacture of fur hats. Felt cloths, hardening. HenryG.Davis, dec'd Clark county, Ala. May 16, 18 Mar. 28, 16 Oct. 10, 16 Nay 6, 18 New York. New York. Nov. 3, 18 Nov. 18 Nov. 18 Oct. 10, 16 Oct. 10, 16 Oct. 10, 16 Nay 6, 18 Nay 6, 18 New York. Nov. 18 Oct. 10, 16 Oct. 10, 16 Oct. 10, 16 Nov. 18 Oct. 10, 16 Oct. 10, 16 Nov.	Cotton whippers and cleaners		It di Dadouiy, Mass	, copt. 10, 1040
Cotton, wool, &c., burring and cleaning			Clark county. Ala.	May 16, 1845
Cleaning. Silas G. Mumford. Stephen H.Parkhurst. Dott. 10, 16 to Charles Atwood. Middlewm, Conn. April 18, 18 Shaefferstown, Pa. John Smith. Shaefferstown, Pa. John Biddis. Pennsylvania. May 6, 18 Fabrics, water proofing. George John Newbery in London, Engla'd Nov. 3, 18 Felt, manufacturing, for bottoms of vessels. Thomas B. Rogers. Seek, manufacturing, for bottoms of vessels. Thomas R. Williams. Felt, washer. Samuel E. Foster. William Cole. Lee, Mass. Jan. 23, 18 Felting and fulling. Shahled J.A.McLean, and G. G. Bishop. Felting of wool, without spinning or weaving. Levi Van Hoesen. Marnaluke Osborne. Felt making, in the manufacture of fur hats. Hezekiah S. Miller. Philadelphia, Pa. March 5, 18 Sept. 18, 18	Cotton, wool, &c., burring and		,	1.2.7 20, 2010
Doffer		Silas G. Mumford	N. Providence, R. I.	Mar. 28, 1844
Charles Atwood		Stephen H.Parkhurst.		Oct. 10, 1835
Fabrics, figured, manufacturing. John Smith. Shaefferstown, Pa. Aug. 4, 18 Fabrics, reducing. John Biddis. Pennsylvania. May 6, 16 Fabrics.—See Class 22, India Rub ber. George John Newbery in London, Engla'd Nov. 3, 16 New York. Nov. 3, 16	Doffer, circulating and transverse.			
Fabrics.—See Class 22, India Rubber. Fabrics.—See Class 22, India Rubber. Fabrics, water proofing!	Fabrics, figured, manufacturing			
Fabrics.—See Class 22, India Rubber. Fabrics, water proofing				
Felt, manufacturing, for bottoms of vessels		ber.	,	
Felt, manufacturing, for bottoms of vessels	rabrics, water proofing	George John Newbery	Citizen U.States, now	
Felt, manufacturing	T3 1 1		in London, Engla'd	Mar. 3, 1841
ley	Fabrica, water proofing		New York	Nov. 3, 1841
relt, manufacturing, for bottoms of vessels	reil, manufacturing			
Felt, papermaker's, washing and cleansing. Felt, washer. Felt, washer. Felting and fulling. Felting of wool, without spinning or weaving. Felting, for coats, hats. Felt making, in the manufacture of fur hats. Felt cloths, hardening. Thomas R. Williams. Samuel E. Foster. William Cole. July 25, 16 Jan. 23, 16 Jan. 24 Jan. 24 Jan. 25 Jan. 25	Pelt manufacturing for hattanage	ley	Green county, N. Y.	Aug. 29, 1829
Felt, papermaker's, washing and cleansing. Felt, washer. Felting cloth. Felting and fulling. Felting of wool, without spinning or weaving. Felting, for coats, hats. Felt making, in the manufacture of fur hats. Felt cloths, hardening. Felt cloths, hardening. Samuel E. Foster. William Cole. July 25, 18 Teo, N. Y. Lee, Mass. Troy, N. Y. John D. Lounsburg, J. Arnold, J. A. McLean, and G. G. Bishop. Norwalk, Conn. July 15, 16 New York, N. Y. May 25, 18 Teo, No. Y. Norwalk, Conn. July 15, 16 New York, N. Y. May 25, 18 May 25, 18 Teo, No. Y. Norwalk, Conn. July 15, 16 New York, N. Y. May 25, 18 May 25, 18 Teo, No. Y. Norwalk, Conn. June 27, 18 May 25, 18 Jec. 8, 1		771 D 3872112	37 A D 7	35 00 1000
cleansing		Inomas R. Williams.	Newport, R. 1	May 22, 1834
Felting cloth		Samuel E Paster	Decadele and The	34 OF 1000
Felting cloth		William Cale	Tag Mary	May 25, 1832
Felting and fulling	Palting cloth	Oliver Remet in	Trov N V	Dec. 9 1010
Arnold J. A. McLean, and G. G. Bishop Felting of wool, without spinning or weaving			110y, 14. 1	Dec. 0, 1012
Felting of wool, without spinning or weaving	www. summig			1
or weaving			Norwelle Conn	Tuly 15 1000
or weaving	Polting of wool, without aninning		A.O. WERT, COMMISSION	July 10, 1028
Felting, for coats, hats			Norwalk, Cons.	June 27 1900
fur hats			New York N V	May 99 1940
fur hats		manag verville	ATOW EVIR, LT. E	ay 20, 1042
Felt cloths, hardening Henry A. Wells New York Sept. 18, 18		Hezekiah S Miller	Philadelphia Pa	March 5 1990
	Felt cloths, hardening	Henry A. Wells		
į į			AUIMINIA	~op. 20, 2011
* Patented in England March 14, 1844. † Reissued Oct. 6, 1835. † Antedated May 19, 1840.	* Patented in England March 14	1944 L Delegned Oct 6	1995 - Amendara Mar	10 1940

RETURNS OR DISCOTRAGES.	PARMITTEES.	NO COMPANS	THE STREET.
Mult cloths and hat bedies, shrink-			
ing	Henry A. Wells	New York	Sept. 11, 1841
Felt cloths, planking	Henry A. Wells	New York	Sept. 18, 1841
Felt cloths, without spinning and			
weaving, machinery for,		in London, Engla'd	
Figures to be stamped or painted	i .	,	
In fabrics, design for	Sparkman and Kelsey	New York, N. Y	July 25, 1846
Flannels, wetting	Joseph W. Hale	Haverhill, Mass	April 2, 1841
Flax, breaking	John Cannon	Delaware	Jan. 17, 1901
Flax, breaking	Samuel Davison	Romulus, N. Y	May 17, 1899
Flax, breaking	Pierson Reading	Trenton, N. J	Jan. 3, 1825
Flax, breaking and dressing	Samuel Mulliken	Philadelphia, Pa	Mar. 11, 1791
Flax, breaking and dressing, and	Tosanh Duisses	Sahahania N V	On 5 1996
thrashing, and grinding	Joseph Briggs	Schoharie, N. Y	Oct. 5, 1825 Feb. 28, 1825
Flax dresser	Francis Burdick William Wheeler	Kortwright, N. Y Warren, N. Y	Mar. 26, 1825
Flax dressing	Elisha Mark	waicu, 14. 1	Mar. 21, 1886
Flax dressing	Jonathan Barlow	Granville, Mass	Aug. 23, 1809
Flax dressing	Oliver Wilde	Canaan, N. Y	April 16, 1810
Flax dressing	John Hawes	Hudson, N. Y	June 19, 1812
Flax dressing	Joseph Hines and Wil-	•	•
_	liam Bain	New York	Aug. 12, 1826
Flax dressing	Henry Schoonhoven	Pultney, N. Y	Dec. 11, 1827
Flax and hemp, bleaching.—See C			
Flax and hemp, breaking	Ferdinando Stith	Franklin, Tenn	April 22, 1835
Flax and hemp, breaking	John Warren	Westbrook, Maine	June 14, 1837
Flax and hemp, breaking	Harvey Lull	Ithaca, N. Y	June 14, 1837
Flax and hemp, breaking Flax and Hemp, breaking	Andrew Forsyth	Columbia, Tenn	Jan. 9, 1838
Flax and hemp, breaking and clean-	Alvin Keyes	Crittenden, Ky	April 4, 1838
ing	Arnold Zellnor	Pulaski, Tenn	July 26, 1833
Flax and hemp, breaking and clean-			,, 2000
ing.	Samuel Davis	Westbrook, Maine	Sept. 21, 1837
Plax and hemp, breaking and dress-		,	-
ing	Lafayette Tibbitts	New Glasgow, Va	Oct. 22, 1831
Plax and hemp, breaking and dress-			_
ing	Ebenezer C. Chase	Jay, Maine	Jan. 6, 1832
Plax and hemp, breaking and dress-	A 11.67.11	C'1	0. 05 1000
ing	Arnold Zellnor	Giles county, Tenn.	Oct. 25, 1832
Flax and hemp, breaking and dress-	Chapman Warner, A.		
ing.	T. Mixell, and Ed- win J. Horn	Belvidere, N. J	July 31, 1837
Flax and hemp, breaking, and	win 3. 110th	Detainere? TA. 3	July 52, 1001
shelling corn	Reynolds Gillman	New York	Nov. 5, 1894
Flax and hemp, breaking and	2007.10125 Gallandi		0, 1002
thrashing	Noah G. Hayden	Harrodsburg, Ky	April 12, 1838
Flax and hemp, cleaning and break-	,	,,,	•
ing	Robert Miller	Glasgow, Ky	May 23, 1834
Flax and hemp, cleaning machine		Louisville, Ky	June 29, 1833
Flax and hemp, combing	Jos. and James Wester-		
en	man	New York	Aug. 14, 1838
Flax and hemp, dresser	E. H. Nichols and	Ct. 7-11 . 37:	0-4 1 1000
War and home describe	Diata Waltala	St. Johnsburg, VL	Oct. 1, 1836
Flax and hemp, dressing	Platt Wakelee	Augusta, N. Y	when to toss
Flax and hemp, dressing	Abel Smith and James	Westmoreland, N.Y.	July 10, 1830
Flax and hemp, dressing	Olney Hezekiah Hawley	Louisville, Ky	June 4, 1833
Flax and hemp, dressing	Wm. and R. Brittain.	Armwell, N. J	Oct. 12, 1837
Flax and hemp, dressing, wheel for	C. and W. A. Benton.	Armenia, N. Y	May 22, 1816
Flax and homp, &c., hatcheling.	Daniel Treadwell	Boston, Mass	Aug. 18, 1634
Flax and hemp, &c., hatcheling	Foster Demasters	Shelbyville, Ky	Nov. 20, 1838
Plax and hemp, and manille grass,			•
_combing	S. Couillard, jr		Oct. 19, 1836
Flax and hemp machine	Samuel Mulliken	Phuadelphia, Pa	Jan. 15, 1795

^{*} Autodated Mar. 23, 1866.

ESTABLISHED OR DESPONDED.	244manas.		Astrin startes
Flax and hemp machine	Benjamin Tyler	New Filmpshire	Feb. 96, 1988
Plant and hemp machine	Hez. Betts	Connecticut	May 3, 1999
Flax and hemp machine	Owen Roberts	Pennsylvania	April 12, 1804
Flax and hemp machine	Richard Button	Cazenovia, N. Y	Feb. 11, 1807
Fleix and hemp machine	Thomas Cahoon	Cazenovia, N. Y	April 13, 1808
Flax and hemp machine	Richard S. Chappell	Pawlet, N. Y	Jan. 18, 1809
Flax and hemp machine	Eli F. Hill	Fabius, N. Y	Feb. 11, 1860
Flax and hemp machine	Nathaniel P. Robinson	Fleming county., Ky.	Aug. 31, 1810
Flax and hemp machine	Edward Rumsey	Christian co., Ky	April 26, 1811
Flax and hemp machine	John C. Johnson	Fayette county, Ky.	May 16, 1811
Flax and hemp machine	Robert Miller	Lexington, Ky	July 13, 1811
Flax and hemp machine	J. A. Dane	Cazenovia, N. Y	July 23, 1811
Flex and hemp machine	William Harper	Richmond, Va	Oct. 15, 1611
Flax and hemp machine	Archibald Tanner	Trumbull co., Ohio.	Oct. 24, 1811
Flax and hemp machine	Ira Millard	Kent, Conn	May 6, 1813
Flax and hemp machine	William Van Duzer	Warwick, N. Y	
Flax and hemp machine	Francis Hall	Tennessee	Oct. 7, 1813
Flax and hemp machine	G.H.Ricketts and John Kinney, jr	Mount Pleasant, N.J.	July 12, 1814
Flax and hemp machine	G.H.Rickettsand John	Momistown N I	Oct. 24, 1814
Flax and hemp machine	Thomas Pullen	Morristown, N. J Lexington, Ky	June 20, 1816
Plax and hemp machine	David Melville	Newport, R. I	Nov. 18, 1818
Flax and hemp machine	Henry Burden	Albany, N. Y	June 15, 1829
Flax and hemp machine	William Cumberland.	New York	July 9, 1822
Plax and hemp machine	James McDonald	New York	Aug. 31, 1822
Flax and hemp machine	Naman Goodsell	Paris, N. Y	
Flax and hemp machine	James McDonald	New York	Jan. 18, 1823
Flax and hemp machine	Joseph Hines and Wil-		
•	liam Bain	Columbus, Ohio	Feb. 3, 1823
Flor and hemp machine	Frederick Cox	Somerville, N. J	
Flax and homp machine	Benjamin Lewis	Ligonia, Maine	
Flax and hemp machine	Erastus Kellogg	Palmyra, N. Y	
Flax and hemp machine	William C. Davison	Pittsford, N. Y	
Flex and hemp machine	Franklin Kellsey	Middletown, Conn	
Flax and hemp machine	T. S. and A. Barnum.	New York	
Flax and hemp machine	John C. Wenzell	Louisville, Ky Philadelphia, Pa	
Flax and hemp machine Flax and hemp machine	Evans Christian Amos Salisbury	Troy, N. Y	
Flax and hemp machine	Amos Salisbury and	1109, 11. 1	12pin 10, 2000
	J. C. Longdon	Trey, N. Y	April 18, 1829
Flax and hemp machine	J. Y. Watson, J. Blos-	Salem, N. Y	April 21, 1829
Fiex and hemp machine	som, and A. Burnett Thomas Cahoon	Trey, N. Y	
Flex and hemp machine	Reuben Medley	Bloomfield, Ky	
Flax and hemp machine	H. L. Barnum and M.		1
Plex and hemp machine	Stephenson	Cambridge, N. Y	July 8, 1829
and nomp managed	J. C. Langdon	Trey, N. Y	July 29, 1829
Flax and hemp machine	Lafayette Tibbitts	New Glasgow, Va	
Flax and hemp machine	J. L. F. Roumage	New York	Aug. 6, 1829
Flax and hemp machine	William K. Scott	Sandy Hill, N. Y	Feb. 11, 1830
Flox and hemp machine	John Rich, jr	Troy, N. Y	May 20, 1839
Flax and hemp machine	Daniel Ball	Sandy Hill, N. Y	July 7, 1839
Plax and hemp machine	Robert McCormick	Rockbridge co., Va.	Oct. 1, 1830
Max and hemp machine	Joel Dewey, jr	Troy, N. Y	Nov. 25, 1839
Flax and hemp, preparing	Wm. Pickingbottom	New York	July 12, 1816
Plax and hemp, preparing	John Goulding	Boston, Mass	Aug. 17, 1835
Plax and hemp, preparing for spin-	_	50 1.1	36 - 1010
mng	John Owings	Baltimore, Md	Mar. 5, 1812
Plax and hemp, preparing for spin-		Dittadalatia Da	Non 101 4
ming.	Pinder Antrim	Philadelphia, Pa	Nov. 25, 1814
Flax and hemp, rotting by steam.	Achilles Chinn	Harrison county, Ky	
Flax and hemp, and tow hatcheling	John Goulding	Boston, Mass	OCI. 10, 1039

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DESCRIPTIONS OR DISCOVERIES.	PARRIEGO.		wair aine.
Manager on order order			
Flax and hemp, unretted, machine			
forFlax machine	William Cumberland. J. Halladay, T. Eld- ridge, C. Gibbs, and	New York	Nev. 29, 182
	J. D. Smith	Hartford, N. Y	Mar. 4, 183
Flax and hemp, breaking Flax and hemp, breaking and clean-	John P. Fry	Pulaski, Tenn	Dec. 21, 184
Flax and hemp, cleaning and dress-		Ripley, Ohio	Sept. 3, 184 Nov. 28, 184
ng Flax and hemp, cleaning and hack-	E. Geissendorff	Cincinnati, Ohio	1101. 20, 101
ling	Charles Learned F. M. Barnes	St. Louis, Mo Lexington, Mo	Oct. 22, 184 Jan. 10, 184
Flax and hemp, breaking and cleaning Flax and hemp, breaking and	John Godden	Pittsburg, Iowa Ter.	Jan. 20, 184
cleaningFlax and hemp, breaking and	William N. Stewart	May's Lick, Ky	Feb. 4, 184
scutchling	Henry Johnson	Maysville, Ky	Mar. 4, 184
ratory to the various processes of cleaning and separating the	i e		
fibres	Sands Olcott	New Hope, Pa	Mar. 31, 184
of	Sands Olcou		
Flier and bobbing for twisting silk		Haruford, Ct	
Flier for twisting silk	Edward L. Young	Norfolk, Va	Oct. 8, 184
Flocks, machine for cutting Fulling cloth	M. W. Northrop and	•	
Fulling cloth, by steam	R. R. Dillon Ross Winans	Newton, N. J Warwick, N. Y	
Fulling mill	Asa Danielson		
Fulling mill		Otsego, N. Y	Nov. 6, 181
Fulling mill, and power loom			
Fulling mill, stocks, propelling	Elisha O. Norris	Monmouth, Me	July 7, 183
Fulling mill, and washing Fulling and scouring cloth			
Fulling and scouring, and making		Rutland, N. Y	Mar. 26, 182
carpeting	Harvey Slayton		
Furs, process of blowing & clean	Sidney E. Coleman	West Haven, Vt	June 11, 184
_ ing	John W. Cochran		
Fur, blowerFur, blower			
Fur, cleaning			April 19, 183
Fur, cutting	Martin Clark	New York	. April 21, 181
Fur, cutting		Danbury, Ct	May 9, 181
Fur, cutting			
Fur, cutting			Dec. 20, 189
Fur, cutting	. Charles C. K. Beach	. Portland, Me	
Fur, cutting, and cloth shearing.			D
Fur, cutting machine, reciprocat	D. Johnson Curtis M. Lampson.		
Fur, cutting from pelt			
Fur, cutting from peltry			
Fur, cutting from peltry	Ephraim Cutter	. Walpole, N. H	Feb. 4, 18
Kur cutting from policy	. William Jackson	Burlington, N.J	Feb. 2, 181
Fur, cutting from peltry			
Fur, cutting from skins	. Ira Ives		
Fur, cutting from skins Fur, cutting from skins Fur, extracting hair from	. Ira Ives	. Walnut Lane, N. C.	



Wood, & J. Arnold Fairfield, Cl. Dec. 4, 1835 Gin., cotton Gin., cotton Hodgen Holmes Georgia Dec. 23, 1739 Gin., cotton Hodgen Holmes Georgia Dec. 23, 1739 Gin., cotton Elem Whiting Massachusetts Mar. 14, 179 Gin., cotton Hodgen Holmes Georgia Dec. 23, 1739 Gin., cotton Eben Whiting Massachusetts Jan. 22, 1739 Gin., cotton Eben Whiting Massachusetts Jan. 22, 1739 Gin., cotton Montmollen Massachusetts Jan. 22, 1739 Gin., cotton Montmollen Georgia Dec. 23, 1739 Gin., cotton Montmollen Georgia Mar. 7, 1803 Gin., cotton John McBride Nashville, Tenn Aug. 8, 1803 Gin., cotton John McBride Nashville, Tenn Aug. 8, 1803 Gin., cotton Gotton Gotton Gotton Gotton Gin., cotton Gotton Gotton Gotton Gotton Gin., cotton Gotton Gotton Gotton Gotton Gin., cotton Gotton Gotton Gotton Gotton Gotton Gin., cotton Gotton Gotto	enalizitatina os salocalidaso"	PARRIETE SAN	Ballatte Matter.	WHEN MAJES.
Packs April 30, 1634 Prince Pri	Far, extracting from skins, and	Levi Ward, ass'ee of		
Fur, publing from peltry William Jackson Wurden, Sparnating from hair C. Lockwood, & J. Arnold. Fur, substitute for dressed fur akins Gin., cotton Hodgen Holmes Gin., cotton Jamee Lynever Gin., cotton Gin., cotton Gin., cotton Jamee Lynever Gin., cotton Jamee Lynever Gin., cotton Gin., cotton Gin., cotton Gin., cotton Gi			Walworth, N. Y	April 30, 1834
Fur, substitute for dressed fur akins Gin, cotton Gin,		William Jackson		
Fur, substitute for dressed fur skins Sin, cotton	Fur, separating from hair	C.Lockwood, R.Lock-	,	.,
Fur, substitute for dressed fur skins Allen Belden. Hudson, N. Y. April 22, 1825 (Sin, cotton. Eli Whitney. Massachusetts. Mar. 14, 1827 (Sin, cotton. Robert Watkins Georgia. Dec. 23, 1796 (Sin, cotton. Bellen Whiting. Georgia. Dec. 23, 1796 (Sin, cotton. Eben Whiting. Massachusetts. Jan. 29, 1801 (Sin, cotton. Eben Whiting. Massachusetts. Jan. 29, 1801 (Sin, cotton. Wm. Bell & Sam'l D. Montmollen. Georgia. April 7, 1806 (Sin, cotton. Wm. Bell & Sam'l D. Montmollen. Georgia. April 7, 1806 (Sin, cotton. William Bell. Pennsylvania. Nov. 24, 1802 (Sin, cotton. Obed Crawford. Robert Hancock, sen. & Edward W. Carr. Isaiah Jennings. New York. Dec. 27, 1815 (Sin, cotton. Engelhart Cruse. Charleston, Sc. Nov. 18, 1803 (Sin, cotton. Samuel Pennoyer. Cross Rivers, N. Y. July 24, 1802 (Sin, cotton. Samuel Pennoyer. Cross Rivers, N. Y. July 24, 1802 (Sin, cotton. David Phillips. Befiers on. Co. Nov. 18, 1802 (Sin, cotton. Samuel Pennoyer. Cross Rivers, N. Y. July 24, 1802 (Sin, cotton. Samuel Sawyer. Boston, Mass. Gin, Cotton. Jacob Perkins Bridgewater, Mass. June 11, 1822 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 14, 1822 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 11, 1822 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 11, 1822 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 11, 1822 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 11, 1822 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 11, 1823 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 11, 1823 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 14, 1824 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 14, 1824 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 14, 1824 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 14, 1824 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 14, 1824 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. June 14, 1824 (Sin, cotton. Jacob Perkins. Bridgewater, Mass. July 18, 1836 (Sin, cotton. Jone McCreight. Misson, Misson, July 22, 1831 (Sin, cotton. Jone McCreight. Misson, Mi		wood, & J. Arnold	Fairfield, Ct	Dec. 4, 1832
Gin, cotton	Fur, substitute for dressed fur skins	Allen Belden		April 22, 1835
Gin, cotton	Gin, cotton	Eli Whitney	Massachusetts	Mar. 14, 1794
Gin, cotton	Gin, cotton		Georgia	May 12, 1796
Company Comp				Dec. 23, 1796
Win. Bell & Sam'l D. Georgia				
Montmollen. William Pell. Georgia April 7, 1805	h '		Massachusetts	Jan. 22, 1801
Mm. Bell and J. S. D. Montmollen. Georgeia Mar. 7, 1803	GIB, COLLOD		Q	A 11 # 4200
Montmollen. Geörgia Mar. 7, 1603	Gin setten		Georgia	April 7, 1802
Gin, cotton. William Bell. Pennsylvania. Nov. 24, 1806 Gin, cotton. John McBride. Nashville, Tenn. Aug. 8, 1808 Gin, cotton. Robert Hancock, sen. & Edward W. Carr. Philadelphia, Pa. Feb. 6, 1811 Gin, cotton. Engelhart Cruse. Charleston, S. C. Nov. 18, 1816 Gin, cotton. Samuel Pennoyer. Charleston, S. C. Nov. 18, 1816 Gin, cotton. Samuel Pennoyer. Eleazer Carver, jun. Gin, cotton. Samuel Pennoyer. Gindid, Ct. Nov. 6, 1826 Gin, cotton. Samuel Sawyer. Gindid, Ct. Nov. 6, 1826 Gin, cotton. Samuel Sawyer. Benufort, S. C. Nov. 6, 1826 Gin, cotton. Samuel Sawyer. Boston, Mass. April 3, 1828 Gin, cotton. Jacob Perkins. Gin, cotton. Jacob Perkins. Gin, cotton. Jacob Perkins. Gin, cotton. James McCreight. Minsborough, S. C. Feb. 25, 1836 Gin, cotton. Gin, cotton. James McCreight. Minsborough, S. C. Sov. Gin, cotton. James McCreight. Minsborough, S. C. Nov. 25, 1837 Gin, cotton. John Beath Gin, cotton. G	Cin, collon		Cainnia	M 7 1005
Gin, cotton.	Gin cotton			
Gin, cotton				
Robert Hancock, sen.			A.MBHTHIC, I CHIH	
Gin, cotton				June 86, 1001
Gin, cotton.			Philadelphia Pa	Feb. 6 1811
Charleston, S. C. Nov. 18, 1814	Gin, cotton			
Gin, cotton.				
Gin, cotton.				
Gin, cotton. Cleazer Carver, jun. J. and T. Leavitt. Comfort Lane, sided, Ct. Mar. 24, 1825	Gin, cotton			
Gin, cotton.	Gin, cotton			
Gin, cotton.	Gin, cotton			
Gin, cotton.				Mar. 24, 1825
Gin, cotton. S. T. Conn. New York June 11, 1829 Gin, cotton. James Lynch. James Lynch. James Lynch. Jacob Perkins Bridgewater, Mass. July 22, 1833 Gin, cotton. W. & J. McCreight. New London, Ct. Feb. 5, 1836 Gin, cotton. Pierson Reading. Trenton, N. J. April 13, 1839 Gin, cotton. James McCreight. New Coldon, Ct. Feb. 25, 1836 Gin, cotton. James McCreight. New Coldon, Ct. Feb. 25, 1836 Gin, cotton. James McCreight. New Coldon, Ct. Feb. 25, 1836 Gin, cotton. James McCreight. New Orleans, La. April 25, 1837 Gin, cotton. Goodell, Brown, Tracy & Moseley, ass'nees of J. Stevens. Poughkeepsie, N. Y. Nov. 25, 1837 Gin, cotton. John Beath. Boston, Mass. July 2, 1836 McGrin, cotton. John Beath. Boston, Mass. July 2, 1836 Gin, cotton. John Beath. Boston, Mass. July 3, 1846 Gin, cotton. William P. Baker. William P. Baker. William S. Cooley. Norwich, Ct. Jan. 7, 1835 Gin, cotton, foot. William Gould. William Gould. More of the provential of the pr	Gin, cotton		Beaufort, S. C	Nov. 6, 1826
Gin, cotton. Samuel Sawyer. Boston, Mass. Mar. 30, 1832 Gin, cotton. James Lynch. Tuscaloosa, Ala. July 22, 1833 Gin, cotton. W. & J. McCreight. Winsborough, S. C. Feb. 5, 1836 Gin, cotton. Henry Clark. New London, Ct. Feb. 25, 1836 Gin, cotton. James McCreight. Winsborough, S. C. July 2, 1834 Gin, cotton. James McCreight. Winsboroough, S. C. July 2, 1834 Gin, cotton. Goodell, Brown, Tracy & Moseley, ass'nees of J. Stevens. New Orleans, La. April 25, 1837 Gin, cotton. Goodell, Brown, Tracy & Moseley, ass'nees of J. Stevens. Poughkeepsie, N. Y. Nov. 25, 1837 Gin, cotton. Lucilius H. Mosely. Poughkeepsie, N. Y. Nov. 25, 1837 Gin, cotton. Henry Conklin. Poughkeepsie, N. Y. Nov. 25, 1837 Gin, cotton. John Beath. Demopolis, Ia. July 21, 1834 Gin, cotton. Lewis G. Sturdevant Delaware, Ohio. July 22, 1847 Gin, cotton, feeder. William P. Baker. Boston, Mass. April 8, 1846 Gin, cotton, fr	Gin, cotton		Jefferson co., Miss	April 3, 1829
Gin, cotton. James Lynch. Tuscaloosa, Ala. July 22, 1832 Gin, cotton. Jacob Perkins. Bridgewater, Mass. June 14, 1834 Gin, cotton. Web. J. McCreight. Winsborough, S. C. Feb. 5, 1834 Gin, cotton. James McCreight. New London, Ct. Feb. 25, 1836 Gin, cotton. James McCreight. Winsborough, S. C. July 2, 1836 Gin, cotton. Alexander Jones. New Orleans, La. April 25, 1837 Gin, cotton. Goodell, Brown, Tracy & Moseley, ass'nees of J. Stevens. New Orleans, La. April 25, 1837 Gin, cotton. Goodell, Brown, Tracy & Moseley, ass'nees of J. Stevens. Poughkeepsie, N. Y. Nov. 25, 1837 Gin, cotton. Lucilius H. Mosely. Poughkeepsie, N. Y. Nov. 25, 1837 Gin, cotton. Henry Conklin. Poughkeepsie, N. Y. Nov. 25, 1837 Gin, cotton. John Beath. Poughkeepsie, N. Y. Nov. 25, 1837 Gin, cotton. John Beath. Boston, Mass. July 21, 1846 Gin, cotton, boxing for. William P. Baker. Boston, Mass. Nov. 20, 1835 Gin, cot				June 11, 1829
Gin, cotton.		/		Mar. 30, 1833
Gin, cotton. Gin, cotton, constructing & affixing the ribs or grates of saw-gins. Gin, cotton, feeder. Gin, cotton, frame. Gin, cotton, grates of saw-gin. Gin, cotton, grates of saw-gin. Gin, cotton, grates of saw-gin. Gin, cotton, improvement in Edwin Keith Gin, cotton, improvement in Cotton, improvement i				
Gin, cotton. Gin, cotton, boxing for. Gin, cotton, constructing & affixing the ribs or grates of saw-gins* Gin, cotton, foot. Gin, cotton, grates of saw-gin. Albert Washburn. Edwin Keith. Gin, cotton, improvement in. Edwin Keith. Gin, cotton, railroad. Gin, cotton, railroad. Wm. Whittimore and Mew London, Ct. Feb. 23, 1836 Trenton, N. J. April 25, 1837 New Corleans, La. New Orleans, La. New Cambridge, Mas				
Gin, cotton				
Gin, cotton				
Gin, cotton. Gin, cotton, boxing for. William P. Baker. William P. Baker. Gin, cotton, feeder. Joseph Ewbank, jr. Gin, cotton, feeder. Joseph Ewbank, jr. Gin, cotton, feeder. Joseph Ewbank, jr. Gin, cotton, feeder. Gin, cotton, fort. Edwin Keith Gin, cotton, improvement in Edwin Keith Bridgewater, Mass. Jan. 8, 1831 Bridgewater, Mass. Bridgewater, Mass. Grayetteville, N. C. Dec. 31, 1811 Bridgewater, Mass. Bridgewater, Mas				
Gin, cotton. Goodell, Brown, Tracy & Moseley, ass'nees of J. Stevens				
& Moseley, ass'nees of J. Stevens. Gin, cotton. Gin, cotton. Wm. Whittemore, jr. Henry Conklin. John Beath. Gin, cotton. Gin, cotton. Lewis G. Sturdevant. Gin, cotton. William P. Baker. William P. Baker. William S. Cooley. William Gould. Mosely. Wo. Cambridge, Masa. May 25, 1837 Poughkeepsie, N. Y. Nov. 25, 1837 Wo. Cambridge, Masa. May 25, 1837 Poughkeepsie, N. Y. Nov. 25, 1837 Wo. Cambridge, Masa. May 25, 1837 Poughkeepsie, N. Y. Wo. Cambridge, Masa. May 25, 1837 Poughkeepsie, N. Y. Wo. Cambridge, Masa. May 25, 1837 Poughkeepsie, N. Y. Wo. Cambridge, Masa. May 25, 1837 Poughkeepsie, N. Y. Wo. Cambridge, Masa. May 25, 1837 Poughkeepsie, N. Y. Wo. Cambridge, Masa. May 25, 1837 Poughkeepsie, N. Y. Wo. Cambridge, Masa. June 7, 1833 Boston, Mass. July 12, 1845 Boston, Mass. Nov. 20, 1838 Nov. 20, 1838 Nov. 20, 1838 Nov. 20, 1838 William S. Cooley. William Gould. McIntosh co., Ga. Feb. 26, 1821 Gin, cotton, forme. Edwin Keith. Bridgewater, Mass. Jan. 8, 1831 Gin, cotton, prates of saw-gin. Albert Washburn. Edwin Keith. Bridgewater, Mass. Mar. 4, 1836 Gin, cotton, improvement in. Edwin Keith. Bridgewater, Mass. Mar. 4, 1836 Gin, cotton, improvement in. Edwin Keith. Bridgewater, Mass. Mar. 4, 1836 Gin, cotton, improvement in. Edwin Keith. Bridgewater, Mass. Mar. 4, 1836 Fayetteville, N. C. Dec. 31, 1817 Washington, D. C. Oct. 17, 1846 Bridgewater, Mass. Mar. 4, 1836 Fayetteville, N. C. Dec. 21, 1846 Bridgewater, Mass. Mar. 4, 1836 Gin, cotton, improvement in. Edwin Keith. Bridgewater, Mass. Bridgewater, Mass. Mar. 4, 1836 Fayetteville, N. C. Dec. 21, 1846 Bridgeheld, Mass. Dec. 22, 1846 Bridgeheld, Mass. Dec. 22, 1846 Bridgeheld, Mass. Dec. 22, 1846 Bridgeheld, Mass. Dec. 7, 1826 Bridgeheld, Mass. Dec. 22, 1846 Bridgeheld, Mass. Dec. 22, 1846 Bridgeheld, Mass. Dec. 22, 1846 Bridgeheld, Mass. Dec. 7, 1826 Bridgeheld, Mass. Dec. 7, 1826 Bridgeheld, Mass. Dec. 7, 1826 Bridgeheld, Mass. Dec. 22, 1841 Bridgehe			Tion Orionis, Lat.	11pm 20, 100
of J. Stevens	•			
Gin, cotton			Poughkeepsie, N. Y.	Nov. 25, 1837
Gin, cotton	Gin, cotton			
Gin, cotton. Gin, cotton. Gin, cotton. Lewis G. Sturdevant William P. Baker. William S. Cooley. Norwich, Ct. Jan. 7, 1835. Gin, cotton, feeder. Joseph Ewbank, jr. Glasgow, Ky. July 29, 1836. Gin, cotton, frame. Eben. A. Lester. Boston, Mass. Jan. 8, 1846. Gin, cotton, grates of saw-gin. Albert Washburn. Edwin Keith. Bridgewater, Mass. Jan. 8, 1836. Gin, cotton, fonce. Eben. A. Lester. Boston, Mass. Jan. 8, 1836. Gin, cotton, frame. Edwin Keith. Bridgewater, Mass. Jan. 8, 1836. Gin, cotton, frame. Edwin Keith. Bridgewater, Mass. Jan. 8, 1836. Gin, cotton, improvement in Peter Von Sahmidt. Washington, D. C. Oct. 17, 1846. Gin, cotton, improvement in Peter Von Sahmidt. Washington, D. C. Oct. 17, 1846. Gin, cotton, improvement in Peter Von Sahmidt. Gin, cotton, improvement in Peter Von Sahmidt. Gin, cotton, improvement in Peter Von Sahmidt. Gin, cotton, improvement in David Phillips. Gin, cotton, railroad. David Phillips. Gin, cotton, roller. Wm. Whittimore and Wm. Whittimore and	Gin, cotton	Wm. Whittemore, jr.		
Gin, cotton	Gin, cotton	Henry Conklin		
Gin, cotton	Gin, cotton		Boston, Mass	July 12, 1639
Gin, cotton. boxing for				
Gin, cotton, boxing for	Gin, cotton			July 23, 1841
Gin, cotton, constructing & affixing the ribs or grates of saw-gins. Asa Copeland, jr Bridgewater, Mass. April 8, 1844 Gin, cotton, feeder Joseph Ewbank, jr. Glasgow, Ky July 29, 1825 Gin, cotton, frame Eben. A. Lester. Boston, Mass Jan. 8, 1831 Gin, cotton, grates of saw-gin Albert Washburn. Bridgewater, Mass Jan. 8, 1831 Gin, cotton, grates. G. F. Saltonstall. Fayetteville, N. C Dec. 31, 1817 Gin, cotton, improvement in Peter Von Sahmidt. Washington, D. C Oct. 17, 1846 Gin, cotton, improvement in Edwin Keith Bridgesfield, Mass Dec. 22, 1846 Gin, cotton, propelling Peter Knox Augusta, Ga Dec. 7, 1826 Gin, cotton, railroad David Phillips Georgetown, Pa May 22, 1841 Gin, cotton, roller Wm. Whittimore and				
ing the ribs or grates of saw-gins* Gin, cotton, feeder		William S. Cooley	Norwich, Ct	Jan. 7, 1835
Gin, cotton, feeder	ing the sibs or suctor of some sing	A O	D 11	4 7 0 1040
Gin, cotton, foot	Gin action feeder			
Gin, cotton, frame				
Gin, cotton, grates of saw-gin Albert Washburn Bridgewater, Mass June 16, 1841 Gin, cotton, prates G. F. Saltonstall Gin, cotton, improvement in Peter Von Schmidt Washington, D. C Oct. 17, 1846 Gin, cotton, in the roller Rich'd Reynolds, jr Peter Knox Gin, cotton, railroad David Phillips Georgetown, Pa May 22, 1841 Gin, cotton, roller Wm. Whittimore and				
Gin, cotton, prates	~ .			
Gin, cotton, hopper		Edwin Keith	Bridgewater, Mass.	Mar 4 1924
Gin, cotton, improvement in Peter Von Schmidt Washington, D. C Oct. 17, 1846 Gin, cotton, improvement in Edwin Keith Bridgefield, Mass Dec. 22, 1846 Gin, cotton, in the roller Rich'd Reynolds, jr Beaufort, S. C Feb. 2, 1846 Gin, cotton, propelling Peter Knox Augusta, Ga Dec. 7, 1826 Gin, cotton, railroad David Phillips Georgetown, Pa May 22, 1841 Gin, cotton, roller Wm. Whittimore and		G. F. Saltonstall	Favettevilla N C	Dec. 31 1817
Gin, cotton, improvement in Edwin Keith Bridgefield, Mass Dec. 22, 1844 Gin, cotton, in the roller Rich'd Reynolds, jr Beaufort, S. C Feb. 2, 1844 Gin, cotton, propelling Peter Knox Augusta, Ga Dec. 7, 1826 Gin, cotton, railroad David Phillips Georgetown, Pa May 22, 1841 Gin, cotton, roller Wm. Whittimore and		Peter Von Schmidt	Washington, D.C.	Oct. 17, 1846
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Gin, cotton, roller Peter Knox Augusta, Ga Dec. 7, 1826 Gin, cotton, railroad David Phillips Georgetown, Pa May 22, 1841 Gin, cotton, roller Wm. Whittimore and	Gin, cotton, in the roller	Rich'd Revnolds, ir	Beaufort, S. C	Feb. 2 1844
Gin, cotton, railroad David Phillips Georgetown, Pa May 22, 1841 Gin, cotton, roller	Gin, couon, propelling	Peter Knox	Augusta, Ga	Dec. 7, 1826
Gin, cotton, roller	Gin, cotton, railroad	David Phillips	Georgetown, Pa	
	Gin, cotton, roller			,,
	,		West Cambridge	Mar. 21. 1839

^{*} Reissued Feb. 12, 1842.

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SEPTEMBER OR DESCRIPTION	PATHINTENS.	r enist ate.	WHER MORE
Gin, cotton, roller	Samuel Sawyer	Boston, Mass	Mar. 30, 18\$
Gin, cetton, roller	Wm. Whittimore, jr.	W.Cambridge, Mass	Mar. 7, 163
Gim, cotton, roller	Wm. Whittimore, jr.	W.Cambridge, Mass	
Gin, cotton, roller	Eleazer Carver	Bridgewater, Mass.	Sept. 27, 183
Gin, cetton, roller	Theodore Ely	New York	Dec. 11, 184
Gin, cotton, roller, ginning long	Theodore Ely	INCW TOTAL	Dec. 11, 104
staple cotton	Eleazer Carver	Duidmannton Mann	Ton 17 194
Gin, cotton, saw cylinder for	l =	Bridgewater, Mass	Jan. 17, 184
	Jacob Idler	Philadelphia; Pa	Dec. 1, 163
Sin, cotton, saw cylinder for Gin, cotton, saw-gin for ginning		New York, N. Y	July 20, 184
Cin cotton com for single cotton	C. A. McPhetridge	Natchez, Miss	April 24, 184
Gin, cotton, saw for ginning cotton		Princeton, Mass	May 7, 184
Gin, saw, ginning cotton	Hilery H. Kelley	Port Gibson, Miss	May 19, 184
Gin, saw, ginning cotton	William B. Stewart	Cincinnati, Ohio	May 19, 184
Gin, cotton, saw-gin for ginning cotton.	Eleazer Carver	Bridgewater, Mass	April 4, 184
Gin, cotton, saw-gin for ginning			
cotton	John H. Sherard	Livingston, Ala	April 30, 184
Gin, cotton, saw	G. F. Saltonstall	North Carolina	Jan. 4, 186
Bin, cotton, saw	Phineas Gardner	Woodville, Mass	April 22, 183
Gin, cotton, saw	Eleazer Carver	Bridgewater, Mass	Jan. 4, 184
Gin, cotton, saw and grates for	Eleazer Carver, jr	Bridgewater, Mass	June 12, 182
Bin, cotton, saw ribs for*	Eleazer Carver	Bridgewater, Mass	June 12, 163
Gin, cotton and wool	Stephen R. Parkhurst.	New York	May 1, 184
Hair cloth	William Shotwell and		,
·	Arthur Kinder	New York	July 23, 181
Hair, eurled, carding, and picking	Francis Harding	Cleaveland, Ohio	Aug. 25, 184
Hair, extracting from fur, &c	Ephraim Cutter	Brattleborough, Vt.	Mar. 1, 160
Hair, extracting from fur, &c	Ephraim Cutter	Walpole, N. H	Feb. 12, 1810
Hair, extracting from fur, &c	John Hollingshead and	•	·
	Daniel Baker	Trenton, N. J	Aug. 19, 181
Hair, extracting from skins	Nahum Swett	Redfield, Maine	Nov. 14, 183
Hair, hatcheling	William Chubb	New York	July 9, 182
Hair, picking, curled	John Thompson, 3d	Essex county, Mass.	July 8, 183
Hair, picking, &c., for mattresses	Asahel Green and J. S. Osgood	Hamilton, N. Y	Dec. 18, 183
Hair, pulling from skins	Nicholas Young	Pennsylvania	June 28, 186
Hair, seating, weaving	Charles R. Harvey	Poughkeepsie, N. Y.	Nov. 25, 183
Hair, separating from fur	John McDonald	New York	Sept. 11, 189
Hair, separating from skins	Samuel Brooks	New York	April 4, 182
Hair, shaving from deer skins	Rodolph Groning	New Orleans, La	Oct. 10, 183
Hatcheling machine	James Patterson	Southampton, N. Y.	Dec. 7, 180
Hat blocks	A. and S. Chichester	Wilton, Com	May 29, 183
Hat, blocking	David Beard	Guilford, N. C	May 28, 181
Hat, blocking	W. W. Jemeson	Wheeling, Ohio	Mar. 30, 183
Hat, bodies	H. F. West and A. F. Stevens.	Richland, N. Y	Oct. 29, 183
Hat, bodies	Benjamin Lapham and	Canaan, N. Y	April 15, 182
Hat, bodies	E. Cady	Falmouth, Mass	June 11, 182
Hat, bodies	Levi Van Hoesen	Norwalk, Conn	June 19, 182
Hat, bodies	William Nuns		
Hat, bodies	Hugh Moore	New York New York city	Aug. 14, 183
Hat, bodies	Henry A. Wells, J.	_	April 20, 183
	James, & R. W.Peck		Sept. 20, 183
Hat-bodies, fabrics for	Isaac L. Chapman	New York	May 1, 184
rial-bodies, mode of forming	Marmaduke Osborne .	New York	Nov. 11, 184
riaus, bodies, bais	Stephen Hurlbut	Glastonbury, Conn.	Feb. 14, 183
mais, bodies, batting or web for	Thomas Blanchard	New York city	June 14, 183
Hets, bodies, betting or web for	Henry A. Wells, Jas. James, and Robert W		
	Peck	Brooklyn, N. Y	Sept. 22, 183
Hats, bodies, forming	Orlando Root	Montgom'ry co. N.Y	

^{*} Reissued Nov. 16, 1839.

Moss. badies, forming Moss. badies, string up. Joseph Grant. Plataburg, N. Y. Oct. 1, 120 Plates, bedies, stiffening Hats. bodies, stiffening Hats. bodies, stiffening J. F. Kettell and J. Worcester co. Mass. July 2, 1836 May 9, 1938 May 9				
Bates, bodies, machinery Daniel Tenny Plattaburg, N. Y. Oct. 1, 1886 Elasts, bodies, estiffening J. P. Kettell and J. Wordence, R. I. April 198, 1885 Hats, bodies, stiffening J. P. Kettell and J. Wordence, R. I. April 198, 1885 Hats, bodies, stiffening J. P. Kettell and J. Wordence, R. I. April 198, 1885 Laxington, Mass. July 2, 1836 Hats, bodies, winding and setting Up. Doseph Grant. Providence, R. I. April 19, 1897 Hats, bonnets, &c. Elisha Pratt. Cambridge, Mass. May 16, 1825 Hats, bonnets, &c. Elisha Pratt. Cambridge, Mass. April 17, 1807 Mar. April 198, 1835 Laxington, Mass. May 16, 1825 Margin Margin May 1, 1807 Mar. April 198, 1835 Laxington, Mass. April 19, 1897 Laxington, Mass. May 16, 1825 Margin Mar. April 198, 1835 Laxington, Mass. May 16, 1825 Margin Mar. April 19, 1897 Mar. Apr.	RESPUBLIES ON DESCRIPTION.	PATEMPPES.	NACODOPAR.	MARK MARKS.
Bates, bodies, machinery Daniel Tenny Plattaburg, N. Y. Oct. 1, 1886 Elasts, bodies, estiffening J. P. Kettell and J. Wordence, R. I. April 39, 1885 Hats, bodies, stiffening J. P. Kettell and J. Wordence, R. I. April 39, 1885 Hats, bodies, stiffening J. P. Kettell and J. Wordence, R. I. April 39, 1885 Hats, bodies, winding and setting J. P. Speer Lexington, Mass. July 2, 1836 Hats, bonnets, &c. Elisha Prati. Cambridge, Mass. April 10, 1897 Elisha Prati. Cambridge, Mass. April 10, 189	Hets, bodies, forming	Seth Graham	Favotte, Maine	May 15, 1000
Bates, bodies, stiffening. Hats, bodies, stiffening. Hats, bodies, stiffening. Hats, bodies, stiffening. Hats, bodies, stiffening. J. P. Kettell and J. Worcester co. Mass. Lexington, Mass. Lexington, Mass. July 2, 1836 Lexington, Mass.	Hats, bodies, machinery			Oct. 1. 1986
Hebery Blyon. Hats, bodies, stiffening. Hats, bodies, stiffening. Hats, bodies, stiffening. Hats, bonnets, dec. Hats, dec.	Mats, bedies, setting up	Joseph Grant		April 28, 1986
Hats, bodies, stiffening. E. P. Spear. Laxington, Mass. June 11, 1838 up. Laxington, Mass. June 11, 1839 up. Laxington, Mass. June 11, 1838 up. Laxington, Mass. Jule 11, 1839 up. Laxington, Mass. Jule 11, 1834 up. Laxington, Mass. Jule 11, 1838 up. Laxington, Mass. Jule 11, 1839 up. Laxington, M			Newark, N. J	May 9, 1885
Hats, bodies, stiffening. Hats, bonnets, dec. Hats, bonnets, dec. Hats, bonnets, cectuing chips for. Hats, bowless, cectuing chips for. Hats, carding. Hats, coloring chips for. Hats, coloring chips for. Action Marchille, last for	pane, bodies, sunening		Warnester on Mass	Tuna 11 1998
Hats, bodies, winding and setting up. Hats, bonnets, &c. bark for. Hats, bonnets, &c., bark for. Hats, bonnets, cutting chips for. Hats, bonnets, &c., ironing and pressing. Hats, bonnets, &c., ironing and pressing. Hats and bonnets of horse hair. Hats and bonnets of horse hair. Hats and bonnets of horse hair. Hats, bowing gearing cones. Hats, bowing wool, &c. Hats	Hats, bodies, stiffening			
Hats, bonnets, &c. Elisha Pratt. Cambridge, Mass. May 16, 1835 Hats, bonnets, &c., bark for. Sylvester G. Whipple. Hats, bonnets, cutting chips for. Kelsey. Mindham, Conn. Bept. 5, 1804 Hats, bonnets, &c., ironing and pressing. Hats, bonnets, &c., straw, pressing and finishing. William Chaplin. New York. Sept. 10, 1846 Hats and bonnets. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats and bonnets of horse hair. Charles L. Noe. New York. Sept. 10, 1846 Hats and bonnets. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats and bonnets. Truman F. Mayhew. Hats, bowing wool for. G. Griffin. E. G. Griffin. E. Hats, bowing wool, &c. Hats, bowing wool, &c. Edward C. Griffin. Lyme, Conn. March. 1, 1809 Hats, carding. Jonathan Dennis. New Milford, Coan. March. 1, 1809 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Hats, bowing wool for. G. Griffin. E. G. Griffin. Lyme, Conn. June 6, 1812 Hats, carding. Jonathan Dennis. New Milford, Coan. March. 1, 1809 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Hats, bowing wool, &c. Hats, lowering wool for. Baniel Nichols. New Milford, Coan. March. 1, 1809 Hats, carding. Jonatel White White Lagland. Coc. 14, 1849 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. Jonathan Dennis. Portsmouth, R. I. May 2, 1843 Hats, carding. May		23 2 1 Sport 1		July 2, 1000
Hats, bonnets, cutting chips for Amos D. Allen and A. Kelsey		Joseph Grant	Providence, R. I	April 10, 1827
Hate, bonnets, ctriing chips for. Hate, bonnets, of grass. Hate, bonnets, &c., ironing and pressing Hate, bonnets, &c., ironing and pressing Hate and bonnets Hate and bonnets Hate and bonnets of horse hair. Hate and bonnets, machine for pressing Hate, bowing, gearing cones. Hate, bowing, gearing cones. Hate, bowing wool, &c. Hate, carding. Hate, carding. Hate, carding. Hate, cassimere. Now Hite White Jopiah C. Seely. Brockley, Pa. Oct. 14, 1849 Dutchess co., N. Y. Hate, coloring. Hate, coloring. Hate, coloring. Hate, coloring. Hate, coloring and cooling Hates, coloring and cooling Hates, coloring and polishing nap of. Hate, equalizing and polishing nap of. Hate, equalizing and polishing nap of. Hate, coloring, Hate, forman, wool and rorum Hates, forman, wool and ro			Cambridge, Masa	May 16, 1835
Hats, bonnets, of grass. Garden Wells& Sophia Wells Wells Wells Wells Wells Wells Wells Garden Wells			Hallowell, Mass	April 17, 1907
Hate, bonnets, &c., ironing and pressing	same, connects, cutting chips for		Windham Conn	Same 5 1904
Hate, bonnets, &c., ironing and pressing	Hats, bonnets, of grass,		winding, conn	make of rons
Hats, bonnets, &c., ironing and pressing	,		Wethersfield, Conn.	Dec. 29, 1821
Hats, bonnets, &c., straw, pressing and finishing. Hats and bonnets of horse hair. Hats bowing, gearing cones. Hats, bowing, gearing cones. Hats, bowing, gearing cones. Hats, bowing wool, &c. Hats, bowing wool, &c. Hats, bowing wool, &c. Hats, bowing wool, &c. Hats, bowing for. Hats, bowing if or. Hats, bowing wool, &c. Hats, bowing wool, &c. Hats, basis, carding. Hats, coloring. Hats, coloring. Hats, coloring. Hats, coloring. Hats, coloring. Hats, coloring of coloring. Hats, fetting and napping of coloring. Hats, frame for. Hats, fra	Hats, bonnets, &c., ironing and		,	
Hats and bonnets of horse hair. Hats, bowing gearing cones. Hats, bowing wool for. Hats, bowing wool for. Hats, bowing wool, &c. Hats, carding Josiah C. Seely. Josiah C. Seely. Josiah C. Seely. Joutchess co., N. Y. Mar. 13, 1844 Lyme, Conn. June 6, 1812 Lyme, Conn. June 1, 1846 Data yre lyme, Conn. June 1, 1846 Cot. 14, 1840 New Mitord, Conn. March 1, 1840 Data yre lyme	pressing	Richard Murdock	Baltimore, Md	June 17, 1849
Hate and bonnets of horse hair. Hate and bonnets of horse hair. Hate and bonnets, machine for pressing. Caleb Merritt. Hate, bowing, gearing cones. Hate, bowing wool, dec. Hate, coloring wool, dec. Hate, coloring wool, dec. Hate, carding bowing wool, dec. Hate, coloring wool, dec. Hate, carding bowing wool, dec. Hate, coloring wool, dec. Hate, dec., leghorn, finishing solor, dec. Hate, felting and napping wool, dec. Hate, formaing, wool and rorum look wool, dec. Hate, felting and polishing nap of. Hate, felting and napping wool, dec. Hate, formaing, wool and rorum look wool, dec. Hate, formaing, wool, dec. Hate, formaing, wool, dec. Hate, formaing, wool, look woo		TT7:11: 01 1:	37 37 11	
Hate and bonnets of horse hair. Hate and bonnets, machine for pressing. Caleb Merritt. Hate, bowing, gearing cones. H. S. Holladay and E. H. S. Holladay and E. H. S. Holladay and E. G. Griffin. Hate, bowing wool for. Hate, bowing wool, &c. Hate, carding. Hate, coloring. Hate, coloring. Hate, coloring. Hate, coloring. Hate, coloring. Hate, coloring and cooling. Hate, coloring and polishing nap of. Hate, clastic, ventilating. Hate, finishing. Hate, formaing, wool and rorum. Hate, fur, preparing. Hate, fur, preparing. Hate, hardening them on a cone. Hate, manufacture of. John N. Genin. Hate, manufacture of. John N. Genin. Heate, manufacture. Jedical Heate, Manufacture.				
Hats and bonnets, machine for pressing				Tuly 90 1843
Hats, bowing, gearing cones. Hats, bowing, gearing cones. Hats, bowing wool for. Hats, bowing wool, &c. Hats, coloring wool, &c. Hats, carding. Hats, coloring. Hats, co			THE TOTAL .	July 20, 1010
Hats, bowing wool for. Hats, bowing wool for. Hats, bowing wool, &c. Hats, bowing wool, &c. Hats, bowspring for. Daniel Nichols. Lyme, Conn. Lyme, Conn. Lyme, Conn. May: 18, 1819 March 1, 1809 Mar			Baltimore, Md	Mar. 13, 1844
Hats, bowing wool, &c Edward C. Griffin Lyme, Conn June 6, 1812 Hats, bowspring for Daniel Nichols New Milford, Cosn. March 1, 1809 Hats, buoyant, used as life-preservers Sarauel White White White Hats, carding Josiah C. Seely Dutchess co., N. Y Mar. 15, 1827 Hats, carding Josiah C. Seely Dutchess co., N. Y Mar. 15, 1827 Hats, cassimere Alsoan Alsoan Philadelphia, Pa Nov. 9, 1842 Hats, coloring Alsoan		Truman F. Mayhew .		
Hats, bowing wool, &c. Edward C. Griffin Lyme, Conn Aug. 16, 1815 Hats, bowspring for	Hats, bowing wool for			
Hats, buoyant, used as life-preservers	Water harring read the			
Hats, buoyant, used as life-preservers				
Sarauel White White Hats, carding	Hats, buoyant, used as life-pre-	Dames Michols	Hew minoru, Comm.	Minicial, 1000
Hats, carding. Josiah C. Seely. Dutchess co., N. Y. Mar. 15, 1827 Hats, carding. Josiah C. Seely. Brockley, Pa. Oct. 19, 1828 Hats, cassimere. Oliver Brooks and Jas. A. Sloan. Philadelphia, Pa. Nov. 9, 1842 Hats, coloring. George M. Johnson. Port Deposite, Md. Dec. 31, 1839 Hats, coloring and cooling. Hats, coloring and cooling. Hats, dir., coloring. Danbury. Coan. Nov. 90, 1823 Hats, dir., coloring. Harmon Hibbard Attica, N. Y. May 25, 1838 Hats, disastic, ventilating. Daniel Greenleaf. Vicksburg, Miss. Nov. 26, 1836 Hats, felting and napping Joseph Snyder. Philadelphia, Pa. May 31, 1826 Hats, forming, wool and rorum John Warely. Albany, N. Y. Oct. 19, 1828 Daniel Greenleaf. Vicksburg, Mass. Nov. 9, 1842 May 24, 1816 Wildon, Coan. May 10, 1804 May 24, 18		Samuel White White.	England	Oct. 14, 1840
Hats, cassimere Oliver Brooks and Jas. A. Sloan Hats, cemented Nov. 9, 1842 Reading, Mass May 24, 1816 Hats, coloring Hats, coloring Hats, coloring and cooling Hats, and furs, coloring Hats, and furs, coloring Hats, dying Hats, elastic, ventilating Hats, felting and napping Hats, felting and napping Hats, forming, wool and rorum Hats, forming, wool and rorum Hats, fur, preparing Hats, hardening them on a cone Hats, manufacture of John N. Genin John N. Genin Stephen Hurlbut Glastonbury, Ct John N. Genin Nov. 9, 1842 May 24, 1816 Nov. 9, 1842 Mad Port Deposite, Md Dec. 31, 1839 Wilton, Coan Nov. 96, 1836 Nov. 26, 1836	Hats, carding			
Hats, cemented			Brockley, Pa	Oct. 10, 1828
Hats, cemented	riaus, cassimere		District Line De	NT 0 1040
Hats, coloring	Hata, cemented			
Hats, coloring				
Hats, coloring and cooling Hats, coloring and cooling Hats, coloring and cooling Hats, coloring Hats, coloring Hats, coloring Hats, coloring Hats, coloring Hats, dying.—See Dying, Class 4. Hats, dying.—See Dying, Class 4. Hats, equalizing and polishing nap of. Hats, felting and napping Hats, filting and napping Hats, filting and napping Hats, formaing, wool and rorum Hats, formaing, wool and rorum Hats, fur, preparing Hats, manufacture of. Hats, manufacture of. Hats, manufacture H				
Hats and fure, coloring		Joel Taylor	Danbury, Coan	Nov. 20, 1823
Hats, —See Composition, Class 4. Hats, dying.—See Dying, Class 4. Hats, elastic, ventilating Hats, equalizing and polishing nap of. Hats, finishing Hats, finishing Hats, finishing Hats, forming, wool and rorum. Hats, forming, wool and rorum. Hats, frame for Hats, fur, preparing Hats, fur, preparing Hats, fur, preparing Hats, fur, preparing Hats of leather.—See Class 16. Hats, manufacture of Hats, manufacture Hats,		Richard Pike		Jan. 23, 1834
Hats, dying.—See Dying, Class 4. Hats, elastic, ventilating		Harmon Hibbard	Attıca, N. Y	May 25, 1838
Hats, elastic, ventilating				
Hats, equalizing and polishing nap of. Shaw New York Hats, felting and napping Thomas J. Cornell Randolph, Vt Feb. 11, 1831 J. Cooper & P. Barnett Hats, &c., leghorn, finishing Hats, forming, wool and rorum Hats, frame for Hats, frame for Richard Gookins Rew York Philadelphia, Pa Ang. 91, 1834 Albany, N. Y Oct. 14, 1813 New Hampshire Jan. 24, 1805 Hats, fur, preparing Rechard Gookins Arnold Buffum Stephen Hurlbut Glastonbury, Ct June 13, 1831 Hats, manufacture of John N. Genin Hats, manufacture of Hats, manufacture Henry Lainhart, jr Helial May 7, 1845 Feb. 11, 1831 Philadelphia, Pa Ang. 91, 1834 Ang. 91, 1834 Ang. 91, 1834 Ang. 1834		Daniel Greenleaf	Vicksburg, Miss	Nov. 26, 1836
Hats, felting and napping				
Hats, finishing		Shaw	New York	May 7, 1845
Hats, forming, wool and rorum Hats, forming, wool and rorum Hats, frame for Richard Gookins Richard Gookins New Hampshire Jan. 24, 1834 Hartford, Ct Sept. 9, 1803 Hats, fur, preparing Arnold Buffum Troy, N. Y Sept. 9, 1803 Hats, manufacture of John N. Genin Richard Gookins Arnold Buffum Troy, N. Y Sept. 9, 1803 Glastonbury, Ct June 13, 1831 New York July 22, 1845 Washington, D. C Dec. 7, 1844 Hats, manufacture Hats, manufacture William Goodrich Hats, manufacture Henry Lainhart, jr Baltimore, Md Jan. 24, 1813 Aug. 20, 1815	Hats, felting and napping			Feb. 11, 1831
Hats, forming, wool and rorum Hats, frame for. Richard Gookins. Richard Gookins. Richard Gookins. Rew Hampshire. Jan. 24, 1808 Rept. 9, 1808 Arnold Buffum Troy, N. Y. Sept. 9, 1808 Troy, N. Y. Sept. 28, 1825 Hats, hardening them on a cone Hats of leather.—See Class 16. Hats, manufacture of. John Maguire. John Maguire. Washington, D. C. Exra Corning, ir. Connecticut. July 22, 1845 Washington, D. C. Exra Corning, ir. Connecticut. July 13, 1803 Hats, manufacture. Henry Lainhart, jr. Hats, manufacture. Jehiel Bryant and John Bryant. Saratoga, N. Y. Alhany, N. Y. Oct. 14, 1813 Ann. 24, 1806 Sept. 9, 1808 Troy, N. Y. Sept. 98, 1825 Sept. 28, 1825 Sept. 29, 1808 Troy, N. Y. Sept. 9,				May 31, 1826
Hats, frame for				
Hats, fur, preparing				
Hats, fur, preparing				
Hats of leather.—See Class 16. Hats, manufacture of. Hats, manufacture of. John N. Genin John N. Genin Washington, D. C. Connecticut July 22, 1845 Washington, D. C. Connecticut July 13, 1803 Hats, manufacture. Henry Lainhart, jr. Hats, manufacture. Jehiel Bryant and John Bryant Saratoga, N. Y. Aug. 26, 1815				
Hats, manufacture of. John N. Genin New York July 22, 1845 Hats, manufacture of. John Maguire Washington, D. C. Dec. 7, 1844 Hats, manufacture. Ezra Corning, jr. Connecticut July 13, 1803 Hats, manufacture. William Goodrich Philadelphia, Pa Aug. 20, 1816 Hats, manufacture. Jehiel Bryant and John Bryant Saratoga, N. Y. Aug. 26, 1815		Stephen Hurlbut	Glastonbury, Ct	June 13, 1831
Hats, manufacture of John Maguire Washington, D. C Dec. 7, 1844 Hats, manufacture Ezra Corning, jr Connecticut July 13, 1803 Hats, manufacture William Goodrich Henry Lainhart, jr Baltimore, Md June 6, 1809 Hats, manufacture Jedediah Carleton Salem, N. H Jan. 21, 1814 Hats, manufacture Jehiel Bryant and John Bryant Saratoga, N. Y Aug. 26, 1815		John N. Genin	New Vork	Tul- 90 104E
Hats, manufacture			Washington D. C.	Dec. 7 1844
Hats, manufacture				
Hats, manufacture	Hats, manufacture			
Hats, manufacture Jehiel Bryant and John Bryant Saratoga, N. Y Aug. 26, 1815			Baltimore, Md	June 6, 1809
Bryant Saratoga, N. Y Aug. 26, 1815			Salem, N. H	Jan. 21, 1814
Hais, manufacture Siles Meson Norfolk Meson Pak 90 1919	Albus, Manuacuit		Seretore N V	Ang 96 1916
	Hats, manufacture	Silas Mason	Norfolk, Masa.	Feb. 20, 1819
Hats, manufacture George Thatcher Brooklyn, N. Y May 31, 1603	Hats, manufacture	George Thatcher	Brooklyn, N. Y	May 31, 1998

ANNUMEROUS OR DESCRIPTION	PATHOYPHOO.	reindelte.	wrln möded.
Hats, manufacture	Joel Taylor and Chas.		
,	Brown	Danbury, Conn	Jan. 13, 183
Hats, military	Shubael Hoskin	Catakill, N. Y	April 30, 181
Hats, military	Samuel Tiballs, jr	Tyringham, Mass	Dec. 26, 181
Hats, napping	James Long	Maryland	
Hats, napping	Jos. Dart, jr., William Wells & Dan'l Olm-	, , , , , , , , , , , , , , , , , , , ,	
	stead	Buffalo, N. Y	May 12, 183
Hats, napping	L. Lyon, 2d	Needham, Mass	
Hats, napping	L. Lyon, 2d	Needham, Mass	
Hats, napping, application of hot			•
water.	Garrard S. Pelly	Lancaster, Ky	July 9, 183
Hate, napping	Andrew Rankin	Newark, N. J	
Hats, napping, with rabbit's fur	David Evans	Alexandria, D. C	
Hats, palm leaf	Frederick Groening	Brooklyn, N. Y	
Hats, palm leaf, pressing	Chester Gorham	Barre, Mass	
Hats, paper	Jos. Ford&John White		
Hate, plank kettle for	Schuyler Fisher		July 15, 181
Hats, plank kettle for	Ezra Joyce		
Hats, planking			,
, p annuag vitti v	Kimball	Hartford, Conn	Oct. 19, 188
Hats, planking		Greene co., Pa	Mar 14, 181
Hats, planking	L. L. Macomber	Bath, Maine	Dec. 31 182
Hats, planking		Boston, Mass	Ian. 31 189
Hats, planking	George Page & Edwin	Doston, Mass	Jun. 01, 102
me, paname	Page	Manchester, Conn	Nov. 9, 183
Hate, planking and felting	Israel Swaim	Haverhill, N. H	Mar 7 181
Hats, pressing leghorn, &c			
Hats, rounder and guage		Bridgenort De	Tune 9 191
Hats, scalding and napping	Samuel Jones	Bridgeport, Pa Ithaca, N. Y	One 15 190
Hats, scalding and napping		Ithaca, N. Y	Mar. 12 102
	Alonson P. Gregory.		
Hats, setting up	Joseph Grant	Providence, R. I	Aug. 11, 102
Hats, setting or ironing the brims	Cuancia Damen	Nam Vanla N V	A 91 104
of *	Francis Degen	New York, N. Y Ithaca, N. Y	Aug. 31, 184
Hate, sizing and napping	George Henning	Wheeling Vo	April 28, 183
Hats, by steam	William Harkins	Wheeling, Va	Dec. 29, 182
Hats, by steam	David Sutton		
Hats, by steam, and hardening	Jonathan Sizer	New London, Ct	Nov. 6, 181
Hats, by steam, and hardening	Nirum Wildman	Danbury, Conn	April 2, 182
Hats, stiffening	A.and G. V. Raymond		Feb. 7, 161
Hats, stiffening	Jonathan D. Wilson		Aug. 6, 182
Hats, stiffening, lathe for	Henry Raymond	Baltimore, Md	Nov. 20, 182
tlats, washing	Samuel Drinkhouse		Jan. 30, 183
Hats, washing and cleaning	William Carlock	Baltimore, Md	Mar. 12, 183
Hats, water proof	Richard Mills		
Hats, water proof, elastic	A. Buffum & J. Kelly.		Feb. 17, 182
Hats, water proof, of paper	Benjamin Grut		
Hats, water proof, stiffening	William Buckles		
Hats, water proof, stiffening	Johan H. Tilge		
Hats, water proof, stiffening	Stephen Hempstead, jr		
Hats, water proof, stiffening	Stephen Hempstead, jr	St. Charles co., Mo.	Oct. 26, 182
Hats, water proof, stiffening			
Hats, water proof, silk	George B. Dexter	Boston, Mass	Jan. 6, 183
Hats, weaving grass			
Hats, without bowing			
Hatters' fur machine	Nicholas Young		
Hatters' furnace for heating irons.	G. V. Raymond	Richmond, Va	
Hatters' furnace for heating irons.	Daniel L. Tuthill		
Hatters' grates, steam boiler applied			
Hatters' kettles, constructing	William Porter and		1
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Abram. Sauger	Waltham, Mass	July 8, 185
77 1 1	J. S. Van de Graaff	Scott, Ky	May 19 18
clemp, break,			
Hemp, break	William Mason	Washington co., O.	

^{*} Reissued Dec. 31, 1845.

· gregorious or best-resident.	PATERIUM:	manufactur.	Wind College.
Hemp, breaking	William Stone, jr	Williamson co., Ten.	Sent 9 1994
		Deserville Kyr	Man 19 1996
Flemp, breaking	John Pursell	Perryville, Ky	
Hemp, breaker	P. G. Gardiner	New York	
Hemp, break	Coleman C. Estes	Maury co., Tenn	
Hemp, break	Thos. L. Fortune	Liberty, Mo	Sept. 3, 1846
Hemp, breaking and eleaning	Geo. T. Tate and W.	• .	ł -
•	English	Frankfort, Mo	July 11, 1849
Hemp, breaker and cleaner	Constant B. Butler	Petersburg, Tenn	
Hemp, breaking and cleaning	Geo. W. Billings and		,
Tremp, preaking and olouming		Glamam Ma	T 7 104E
TT 1 Lin a 1 A.Lina	John Harrison	Glasgow, Mo	June 7, 1845
Hemp, breaking and scotching	S. H. Sample	Fayette, Mo	Aug. 18, 1846
Hemp and flax breaking and dress-			ł
ing	Benjamin M. Smith	Massillon, Ohio	Oct. 7, 1845
Hemp and flax dressing	Wm. Y. Singleton	Springfield, Ill	May 7, 1845
Hemp and flax break	Aaron F. Bruce	Marshell P. O., Mo.	
		1000	Julie 21, 1011
Hemp, hatcheling	Phineas G. Rice and	Donnillo F	Inh. 11 100
**	Gabriel Rice	Danville, Ky	July 14, 1897
Hemp, &c., heckling and spinning		Boston, Mass	Feb. 20, 1844
Hemp, &c., machine	Richard Deering, sen.	Louisville, Ky	June 10, 1845
Hemp and manilla, dressing	Chandler E. Potter	Portemouth, N. H.	Dec. 23, 1834
Hemp, machine*	Geo. W. Billings and		
p,	John Harrison	Glasgow, Mo	May 1, 1845
Hann machine for descrine		Trees N V	
Hemp, machine for dressing	Langdon & Salisbury.	Troy, N. Y	April 25, 1846
Hemp, preparation	Abraham K. Smedes	Lexington, Ky	Oct. 11, 1898
Hemp, &c., preparing & spinning	Moses Day	Roxbury, Mass	. April 30, 1840
Hemp, spinning	John McCully	Salem, Mass	July 14, 1846
Hemp, tarring slivers or bands of			1,
machinery for, & making oakum	Wm. Montgomery	Boston, Mass	Aug. 28, 1840
Jacquard frames, improvement in.	John Perrins	Philadelphia, Pa	. May 28, 1846
Knitting machine	John McMullen and J.	Sinking Valley & Lo	1
	Hollen, jr.	Sinking Valley & Legan's Valley, Pa.	. Feb. 11, 18 3 7
Knitting stockings	A. Porter, J. Mead, &	<i>x</i>	1
• •	James Stedwell	Queensbury, N. Y.	. July 31, 1815
Knitting stockings	John McMullen and J	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 , ,
Trustang broating	i	Huntington co., Pa	. Mar. 5, 1831
Waiting stadings	Hollen, jr		
Knitting stockings	Arasmus French	Springfield, Mase.	
Knitting stockings	Henry Burt	Boston, Mass	. Sept. 23, 1843
Knitting stockings, machine for	Benj. Hutchinson	. Springfield, Mass	. Oct. 22, 1840
Linens, glazing and polishing	William Smith	New York	. May 9, 1805
Linens, smoothing	Wm. P. Smith and J.		1 ' '
	Odell	Durham, N. H	. July 17, 1810
T			
Loom	Amos Whittemore	Massachusetts	1
Loom	David Grieve	Massachusetts	
Loom	Walter Janes	Ashford, Ct	
Loom	Walter Janes	Ashford, Ct	. Sept. 1, 1810
Loom	Philo. C. Curtis	Paris, N. Y	Nov. 17, 1810
Loom	Nathan'l Miller and P	1	1
200111		Franklin Mass	Ana 90 1911
T	W. Miller	Franklin, Mass	
Loom	Nathaniel Perry	Boston, Mass	
Loom	Richard C. Rodgers.	Maine	
Loom	Richard Crosbie	Newark, N. J	. Jan. 6, 1819
Loom	Job Rood	Canterbury, Ct	
Loom	Asa Campbell	Kingston, Pa	. Mar. 28, 1819
Loom		Manlius, N. Y	. Aug. 27, 1819
	John Phelps	Tohanan Da	Ang 00 1014
	d U. Usoper & Ut. Shail	Lebanon, Pa	
Loom		Mosteomery co. Vs	. Oct. 16, 1819
Loom	John Heavin		
	John Heavin		.) May 27, 1813
Loom	John Heavin	. Canean, Ct	
LoomLoom	John Heavin Shepard Briggs Alfred Ware, jr	Cansan, Ct Franklin, Mass	June 18, 1813
LoomLoomLoomLoom	John Heavin Shepard Briggs Alfred Ware, ir Thos. R. Williams	Canean, Ct Franklin, Mass Newport, R. I	June 18, 1813 July 3, 1813
Loom	John Heavin Shepard Briggs Alfred Ware, jr Thos. R. Williams Elisha Rebinson	Cansan, Ct Franklin, Mass Newport, R. I Augusta, Mass	June 18, 1813 July 3, 1813 July 24, 1813
LoomLoomLoomLoomLoomLoomLoomLoomLoomLoomLoomLoomLoom	John Heavin Shepard Briggs Alfred Ware, jr Thos. R. Williams Elisha Rebinson Robert Sugden	Cansan, Ct Franklin, Mass Newport, R. I Augusta, Mass Boston, Mass	June 18, 1813 July 3, 1813 July 24, 1813 Dec. 2, 1813
Loom	John Heavin Shepard Briggs Alfred Ware, jr. Thos. R. Williams Elisha Rebinson Robert Sugden John M. Guiramond	Cansan, Ct	June 18, 1813 July 3, 1813 July 24, 1813 Dec. 2, 1813 Jan. 7, 1814
Loom	John Heavin Shepard Briegs Alfred Ware, jr. Thos. R. Williams Elisha Rebinson Robert Sugden	Cansan, Ct	June 18, 1813 July 3, 1813 July 24, 1813 Dec. 2, 1813 Jan. 7, 1814

^{*} Antedated Nov. 1, 1844.

Minimulative 4x Dreferinging	PA TEMPEND.	Andrews,	ALTERNATION
••••••••••••••••••••••••••••••••••••••	J. Coulter and S. Gamo	Berkeley co., Va	April 18, 19
pom	Jac. Spinkle	Wythe c. h., Va	April 27, 14
@QM	Thomas Siddall	Bristol, Pa	July 9, 12 Oct. 12, 14
#Qm	William Wright	Brooklyn, N. H	Oct. 12, 14
øom	Seth Craig	Philadelphia, Pa	Oct. 18, 1
oom	Salmon Bronson	Kent, Ct	Nov. 25, 14
00m	F. C. Lovel and P. T.	,	
	Jackson	Boston, Mass	Feb. 23, 18
oom	Joseph Jelless	Butternuts, N. Y	May 24, 18
.99m	C. Cooper & G. Shalk	Lebanon, Pa	May 31, 18
60 m	Ira Draper	Weston, Mass	Jan. 7, 18.
00m	Robert Jackson	Auleboro', Pa	July 23, 18.
.00m	Samuel Chapman	Otsego, N. Y	Aug. 30, 18
00m	Benjamin Cummings.	Townsend, Mass	Oct. 3, 18
60 m	Stephen Armstrong	Poughkeepsie, N. Y	April 7, 18
oom	David Grieve	Providence, R. I	April 11, 18
	Edmund Warren	New York	Aug. 27, 18
.00m	Lot Forrester	Ridgefield, Ct	May 15, 18
490m	J. H. Pierson & J. H.	Hamneteed N V	Dec. 31, 18
	Simmone	Hampstead, N. Y	Dec. 11, 18
.oom	Edmund Warren	New York	
200m	Edmund Warren	New York	May 1, 18
409m	C. Whiting, J. Gould-	D 11 34	T 05 104
	ing & W. James	Dedham, Mass	June 25, 18
200m	Roswell Wilcox	Columbus, Ohio	Mar. 21, 18
00m	Joseph Scholfield	Stonington, Ct	Sept. 9, 18
.oom	Roswell Wilcox	Franklin co., Ohio.	April 21, 18
400M,,,,	Cornelius Bergen	New York	June 14, 18
⊿00m	Samuel Chidester	Windham, N. Y	Sept. 2, 18
.oom	Oliver C. Burr	Milbury, Mass	July 17, 183
400m ⁴	Christian W. Shonherr	Subject of the King	
1		of Saxony	May 8, 18
nom†	Enoch Burt	Manchester, Ct	Aug. 8, 18
oom, beam for	Simeon Pettee	Foxborough, Mass .	June 15, 18
oomį	E. B. Bigelow	Boston, Mass	Aug. 18, 18
oom, beam for	Goliah Williams	N. Providence, R. I.	Aug. 24, 18
com, brushes for dressing warps		Lowell, Mass	May 28, 18
oom, cam, improvement in	Richard Garsed	Frankford, Pa	July 20, 18
oom, carpet	Horace Baker	North Salem, N. Y.	April 14, 18
oom, carpet	Josiah R. Clark	S. Coventry, Ct	May 7, 18
eom, carpet	John Haight	Harsimus, N. J	May 17, 18
som, carpet and rug	William Becon	Philadelphia, Pa	April 7, 18
som, cassinet	James Hammond and	I manufuta, I a	Talente .1 To
moun, camure	John McClelland	Williamsmout Da	July 3, 18
-com crenk		Williamsport, Pa	
soom, crank,,,	Ephraim Cutter	Walpole, N. H	Sept. 27, 18
com, damask	Tompkins & Gilrey	N. Providence, R. I.	May 9, 18
oom, domestic	Benjamin Maltby	New York	April 13, 18
oom, domestic	Jer. Hubbard	Jamestown, N. C	Nov. 6, 18
oom, domestic and factory	Walter Janes	Ashford, Ct	Mar. 20, 18
oom, family	Charles Hathaway	Walton, N.Y	Oct. 11, 18
som, figure cloth	William Levalley	Canterbury, Ct	Mar. 20, 18
oom, fish nets	J. Carr, J. Shannon,		
	and Wm. Carr	Sunbury, Pa	Sept. 14, 18
oom, hand and power	John Thorp	Providence, R. I	Mar. 28, 18
oom, hand, for weaving tabrics!!	Wm. Townshend	Rochester, N. H	
com, hand, for weaving fringe.	Eliza Ann B. Judkins.	Portland, Me	Feb. 2, 18
oom, harness for §	John Blackmar	Killingly, Ct	Aug. 7, 18
oom, harness for	John Blackmar	Killingly, Ct	Aug. 7, 18, Oct. 20, 18,
oom, heddle, metallic	Charles Strong	Hartford, Vt	
com, heddle stuff, making wea-	John Thorpe & Wm.		
vers' eye harness.	G. Angell	Providence, R. I	Feb. 26. 18
ooms, improvement in	W. Dutcher	Bennington, Vt	
oom, (improvement on Rogers')		Maine	June 29, 18
	William Sharmond	Sumareworth N U	lan. 96 1≌
*Antedated March 21, 1837.	William Sherwood † Antedated Feb. 10, 183	Sumersworth, N. H. Antedated Fe	

· initialities or discovering.	PATEMPARIE.	administra.	WEIGH STUDEN.
Loom, knilting	Richard Walker and		
	Jefferson McIntire	Portsmouth, N. H	Feb. 12, 1844
Loom, knitting*	Pierre E. Ladrange	Vignory, kingdom	
		of France	Oct. 16, 1944
Loom, lint	Francis Hall	Charlestown, Mass.	Nov. 28, 1817
Loom, making and using	John Goulding	Dedham, Mass	July 7, 1830
Loom, metallic, heddle for	W. Janes & D. Bolles.	Ashford, Ct	April 26, 1815
Looms, mode of delivering werp	John Coulter	Zenia, Ohio	April 25, 1843
Looms, operating shuttles of	R. P. Cunningham	Abington, Ct	Dec. 16, 1945
Loom, picker, tube	Benjamin Holbrook	Providence	Feb. 21, 1826
Loom, power	William Gilmour	Smithfield, R. I	Oct. 26, 1826
Loom, power	Wm. B. Leonard	Fishkill, N. Y	May 23, 1827
Loom, power	Amesa Stone	Providence, R. I	April 30, 1893
Loom, power	James C. Kempton Aden Holbrook & B.	Manayunk, Pa	June 14, 1834
Loom, power	F. French	Dunstable, N. H	June 17, 1834
Loom, power	David Whitman	Windham, Ct	
Loom, power	William G. Gavit	Washington co., R.I	
Loom, power	F. C. Lewis	Grafton, Mass	Mar. 30, 1836
Loom, power	Benjamin Lapham	Waterford, N. Y	
Loom, power	Elijah Fairman	Stafford, Ct	Feb. 6, 1838
Loom, power	Wm. B. Pender & N.	Wolfebersuch N U	Ana 15 1000
F.com power	C. Horn	Wolfeborough, N.H.	Aug. 15, 1838
Loom, power	Caleb Duxbury and J. Nield	Taunton; Mass	April 21, 1849
Loom, power	James Nield	Taunton, Mass	May 25, 1844
Loom, power	James Nield	Taunton, Mass	Mar. 15, 1845
Loom, power	James Nield	Taunton, Mass	Mar. 15, 1845
Loom, power	Daniel Barnum	Bridgeport, Ct	Mar. 26, 1845
Loom, power	George B. Sanford	Putney, Vt	Mar. 17, 1843
Loom, power, broad	E. Burt, O. D. Boyd,	Milbury, Mass	Mar. 9, 1833
zoom, power, check and plant	and A. H. Boyd	Manchester, Ct	Aug. 19, 1828
Loom, power and common	Benjamin Lapham	Saratoga, N. Y	Jan. 20, 1838
Loom, power, figure	James M. Hoggan	New Haven, Ct	Oct. 14, 1834
Loom, power, figure	William Crompton	Taunton, Mass	Nov. 25, 1837
Loom, power, friction to yarn beam	Stephen Kimball	Putney, Vt	May 30, 1838
Loom, power, lathe for Loom, power, lay for	John Whitehead	N. Providence, R. I. New Market, N. H.	Aug. 30, 1819
Loom, power, for silks	Benjamin Brooks Gamaliel Gay	Poughkeepsie, N. Y.	Dec. 17, 1834 Sept. 26, 1835
Loom, power, and stopping	Jesse Taylor & Joseph	_ 0 mg	p, 1000
, Program	Woodhead, &c	Middletown, Pa	April 21, 1831
Loom, power, and taking up cloth	Wm. B. Leonard	Fishkill, N. Y	May 23, 1827
Loom, power, & taking up motion		Johnston, R. I	Aug. 17, 1835
Loom, power, & taking up motion		Killingly, Ct	Sept. 22, 1836
Loom, power, & taking up motion Loom, power, treadle in	John P. Comins Eli Horton	Killingly, Ct Stafford, Ct	Oct 20, 1836 Feb. 22, 1838
Loom, power, upright	C. Shepard & J. Thorpe		July 25, 1816
Loom, power, weav'g stock frames			·,,
,	Harvey	Ramapo, N. Y	Dec. 2, 1835
Loom, power, wire	John S. Gustin	New York	Feb. 23, 1836
Loom, power, mode of throwing			4 305 1010
shuttles!	R. P. Cunningham	Pomfret, Ct	April 25, 1843
Loom, power, weaving plain cloth Loom, power, for weaving plaid		Enfield, Mass Boston, Mass	April 10, 1845
Loom, power, rotary temples for.	Erastus B. Bigelow George Draper	Sangus, Mass	
Loom, power, stopping when west		——————————————————————————————————————	1, 2018
and filling fails	O. M. Stillman	Stonington, Ct	Nov. 10, 1841
Loom, power, weaving carpets	Thomas Flint	Boston, Mass	June 27, 1841
Loom, power, weaving counter-		36	T 1 00 1040
panes	Erastus B. Bigelow	Lancaster, Mass	July 28, 1849
Loom, power, weaving counter-	Emptos R Ricelow	Lancaster Mass	Ang. 9 1949
*Patented in France, June 1, 43. † A:	rendera con er' .ax. tress	mai. 17, 79. [A836	merce med v' all

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DIVENTIONS OR DISCOVERSES.	PATEMPERS.	racingues.	WHILE MEMBER
Loom, power, weaving figured			
counterpanes	Erastus B. Bigelow	Lancaster, Mass	April 24, 1840
Loom, reeds, machine for making		Otsego, N. Y	July 3, 1816
Loom, reeds	Jacob Sennett	Philadelphia, Pa	Oct. 1, 1830
Loom, reeds	Horace Holt	Rutland township,O.	
Loom, reeds, heddles or harness*.		Providence, R. I	July 17, 1635
Loom, reeds, metallic	Peter F. Herben	Patterson, N. J	Nov. 15, 1821
Loom, reeds, polishing wire or br			,
Loom, regulating yarn beam	Welcome A. Potter	Cranston, R. I	Nov. 23, 1837
Loom, regulating the delivery of			-
the warp from the warp beam	William H. Brayton	Warren, R. I	Jan. 6, 1844
Loom, rotary temples for	Isaac C. Lane	Waltham, Mass	
Loom, sail cloth	James Davenport	New Jersey	Feb. 14, 1794
Loom, sail cloth	James Richards	Patterson, N. J	Aug. 10, 1821
Loom, sail duck	Joseph Chapman	Frankfort, Pa	July 9, 1821
Loom, sattinette	John D. Seagrave	Uxbridge, Mass,	May 17, 1838
Loom, sattinette, power			
· · · · ·	N. Butterworth	Troy, Mass	Mar. 22, 1828
Loom, securing the bobbin in shut-			
tles for weaving	Daniel Leavitt	Cabotville, Mass	Aug. 18, 1842
Loom shuttles, mode of throwing	John Goulding	Dedham, Mass	Aug. 24, 1827
Loom, shuttle, tongue	Comfort B. Thorpe	Smithfield, R. I	April 17, 1837
Loom, shuttle, spindle spring	Samuel Cranston	Cumberland, R. I	Mar. 20, 1822
Loom, shuttle, tying knots	John Thorpe	Providence, R. I	Nov. 20, 1828
Loom, shuttles for weaving cloth.	James Baldwin	Nashua, N. H	Jan. 31, 1840
Loom, s.lk, weaving narrow goods	Cornelius Bergen	Brooklyn, N. Y	Dec. 18, 1839
Loom for silk ribbons	C. Ganahl, assignor to	Innsbruck, Austria	Oct. 3, 1846;
•	F. Ganahl.		for pat. dated
	_		May 19, 1837
Looms, stop apparatus for	Enoch Burt	Manchester, Ct	June 20, 1845
Loom, stocking	Eb. Herrick	Stockbridge, Mass	Oct. 22, 1613
Loom, stocking	John Bazin, jr		
Loom, stocking	Aaron Porter	Queensbury, N. Y	Aug. 22, 1816
Loom, stocking, rotary power	Richard Walker	Portsmouth, N. H.	Dec. 5, 1839
Loom, temples for	J. Beard & A. Whitney		
Loom, temples	Erastus B. Bigelow	Boston, Mass	
Loom temples	Benjamin Rogers	Beaver creek, Ohio.	
Loom temples	John Bazin, jr	Canton, Mass	Aug. 8, 1823
Loom temples	Philo C. Curtis	Paris, N. Y	June 16, 1825
Loom temples	Orsemus S. Stillman	Brookfield, N. Y	
Loom temples	John Standish	Providence, R. I	Nov. 11, 1830
Loom templest	Peter Newell	Waterford, N. Y	
Loom temples	C. T. K. Rawlings	Lowell, Mass	
Loom temples	Emory A. Angell	Killingly, Conn	Oct. 19, 1838
Loom, temples, opening and clos-		Nammich Com	Now 16 1041
Ing the jaw.	Dan. L. Huntington.	Norwich, Conn	Nov. 16, 1841
Loom temples, perpetual	Daniel A. Smith	Townshend, Mass	Feb. 23, 1816
Loom temple, revolving bar	E. B. Harris and A. R.	Woodstook Conn	Annil 12 1020
Loom, temples, rotary	Arnold	Woodstock, Conn Palmer, Mass	April 13, 1836 Oct. 28, 1846
Loom temple, rotary	Ira Draper	Sagus, Mass	April 1, 1829
Loom, temples, self-acting	Jonathan Dennis, jr.,		Thin 1, 1040
Liouni, umpice, sur-acting	assignee of Kendall		
	Gibbs	Portsmouth, R. I	Feb. 13, 1839
Loom temple, self-acting	Arnold Palmur		
Loom, temples, self-acting rotary.			1.00. 10, 1040
tomproof sour mount totally.	William Craig and John Cochrane	England	Nov. 25, 1841
Loom temple, self-adjusting	Samuel P. Mason	Newport, R. I	
Loom temple, self-operating	Ephraim R. Otis	River Head, Conn	
Loom temple, sliding	John Waterman	Providence, R. I	May 28, 1818
Loom temple, spring	A. Jenk and J. Clewel		Mar. 19, 1827
Loom treadles and harness			
	Tilton	Enfield, N. H	Dec. 29, 1837
Loom, vibrating, cam		Worcester Mass	Feb. 12, 1830
*Reissued May 94, 1836, lost by fire De †Antedated November	6. 1838. FREWEG A	29, 1840, and again relaced clastical December 2, 1836.	ed vbury, 144%
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Aug. 29, 1840, and again reiseased April 25 f Refestued December 2, 1838.

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1 MUNICIPALITY OR DESCOVERNED.	PA TÜRTÜN .	Mindince.	wikn withd.
Loom warp suspender	William Squire	New York	Jan. 17, 1815
	Calvin Whitney	Dedham, Mass	Feb. 1, 1814
Loom warping	Thomas Siddall	Germantown, Pa	Mar. 27, 1815
Loom warping	James Morgan	Baltimore, Md	April 5, 1831
Loom warping		Boston, Mass	
Loom warps, regulating tension	Erastus B. Bigelow		
Loom, water	Thomas Mussey,	Philadelphia, Pa	
Loom, water	Cyrus Shepard	Philadelphia, Pa	April 27, 1812
Loom, water	Brightberry Brown	Albemarle, Va	
Loom, water	Philo C. Curtis	Paris, N. Y	May 28, 1816
Loom, water	Thomas Mussey	New London, Conn.	June 10, 1817
Loom, water, steam	S. Blydenburg and He-	Wansantan Cana	E-L 00 1018
• ·	zekiah Healey	Worcester, Conn	reo. 20, 1815
Loom weaving	Phoenix Manufacturing		
	Company, assignees		
	of Benjamin Slinger-	5	
	land	Patterson, N.J	April 1, 1845
Loom, weaving, figured goods	Horace Baker	North Salem, N. Y.	
Loom, weaving, figured goods	John Smith	Shæfferstown, Pa	
Loom, weaving, girth cloth	Robert Lloyd	Philadelphia, Pa	Feb. 8, 1810
Loom, weaving, harness	M. Chandler and E.		
	Brown	Cazenovia, N. Y	
Loom, weaving, improvement in.	John Standish	Providence, R. I	Nov. 11, 1830
Loom, weaving, knotted counter-			_
panes	Erastus B. Bigelow	W. Boyleston, Mass.	Jan. 6, 1838
Loom, weaving, stocks	Conrad Kile	Erie, Pa	Sept. 18, 1835
Loom, weaving, webbing, tape	Asa G. Bill and George		
	Spalding	Middletown, Conn	Mar. 28, 1831
Loom, weaver's harness, metal	J.Conger and L. Wood		1
eyes for.	bury	Locke, N. Y	Nov. 15, 1825
Loom, weaver's harness for	J. Thorp and W. G.	•	,
•	Angell	Providence, R. I	Dec. 31, 1838
Loom, weaving	Charles Cooper	Lebanon, Pa	Nov. 4, 1808
Loom, weaving	Cullen Whipple	Douglass, Mass	
Loom, weaving, chips	Philip Bennet	Rochester, N. Y	Feb. 8, 1806
Loom, weaving, cloth for stocks	Conrad Kile	Philadelphia, Pa	Oct. 11, 1836
Loom, weaving, coverlets*	E. Meily, jr., J. Millin-		1
	ger, and S. Millinger	Lebanon, Pa	Mar. 1, 1834
Loom, weaving, feathered cloth	Jon. and Rozanna Sizer		
Loom, weaving, figured cloth	George Detterich and	1	1
, 0, 0	J. Conger	Tompkins co. N. Y.	Mar. 12, 1831
Loom, weaving	David Farrior and D.	•	,
,,	P. J. Murphy	Aberfoil, Alabama	Dec. 4, 1843
Loom, weaving figured fabrics	Clinton Gilroy	New York, N. Y	
Loom, weavers', for working any		,,,	,,
number of heddles	Gavin McCrae	Baltimore, Md	Oct. 18, 1843
Loom, weaving counterpanes, &c.,			1
manner of mounting the	Erastus B. Bigelow	Lancaster, Mass	May 30 1842
Loom, weaving figured and other		Zunowier, recuberri	112th 9 00, 1012
fabrics.	signee of Clinton G.		1
raorros.	Gilroy, of G. Britain	New York, N. Y	Mor 19 18/9
Loom, weaving fish nets	Levi Van Hoesen	New Haven, Conn.	
Loom, weavers' harness, wire hed-			7, 1042
dles for.	Sidney S. Grannis	Morrisville, N. Y	Sent 20 1941
			Sept. 30, 1041
Loom, weavers' harness, wire hed-	Ridney & Gennie	Morrisville, N. Y	Oct 11 1941
dies for.	Sidney S. Graninis.	TATOLITOVILLE, 17. I	Jon. 11, 1041
Loom, weaving figured cloths, jac-		Dhiladalphia Da	Feb 2 7043
quard machinery for	Alexander Calderhead,	r manorhus, ra	Feb. 3, 1841
Loom, weaving figured damask	Samuel Boss	Consider N T	Sant 10 1041
hair-seating	Samuel Ross	Camden, N. J	Sept. 18, 1841
Loom, weavers' shuttles:	Roswell Douglass, as-	Tamell Mass	Man 10 1046
Tina	signee of J. Coburn.	Lowell, Mass	Mar. 12, 1842
Leom, weaving	Benjamin W. and Ho-	Woonsocket Falls,	
	race Hendrick.	R. I	May 12, 1842
	l		I

^{*} Reissued June 26, '35. † Antodated May 1, '42. † Date of Eng. pat. Nov. 12, '39. || Reissued May 30, '42.

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Learn, wearing bolting cloth,			
mounting and using the harness	Rollin White	Williamstown, Vt	April 1, 1849
Loom, weaving carpets*	Erastus B. Bigelow	Lancaster, Mass	May 16, 184
Loom, weaving carpetat	Erastus B. Bigelow	Lancaster, Mass	May 26, 1949
Loom, wire, harness	Elisha Otis	Cazenovia, N. Y	Dec. 31, 1894
Loom, wire, harness	Ezra Brown Ezra Brown	Cazenovia, N. Y Cazenovia, N. Y	April 12, 1896 Oct. 30, 1896
Loom, wire, harness	Samuel S. Williams	Roybury Mass	Aug. 22, 1820
Mule, self-acting	William Mason	Roxbury, Mass Taunton, Mass	Aug. 22, 1836 Oct. 3, 1846
Nankeen, making, yellow & buff.		Philadelphia, Pa	April 26, 1895
Napping cloth	Samuel Mulliken	Philadelphia, Pa	Mar. 11, 1791
Napping cloth	William Burt		June 23, 1797
Napping cloth	James Olney	Hartford, Ct	Mar. 1, 1813
Napping cloth	John Mathes	Barre, Va	May 27, 1813
Napping cloth	Isaac Sanford	Providence, R. I	Mar. 26, 1814
Napping cloth	Daniel Merwin & Ho-		
· · · · ·	race Kellogg	Hudson, N. Y	Oct. 28, 1814
Napping cloth	T S Barnum&E Smith	Litchfield, Conn	April 4, 1845
Napping cloth	William Duncan and J. Davidson	Aslementh N II	May 29, 1815
Non-ing slath	E. Starr and Nathan	Ackworth, N. H	May 25, 10 B
Napping cloth	Couch	Sullivan town'pN.Y.	Mar. 20, 1817
Napping cloth	Bishop N. Parsons	New York	April 16, 1817
Napping cloth	Levi & Jedediah Pres-		
Turbbung om an	cott	Pittsburgh, Pa	Nov. 5, 1849
Napping cloth	Job Wilkerson	New York	May 12, 1895
Napping cloth	Stephen Marsh	Fairfax, Vt	July 20, 1825
Napping cloth	M. R. Norris and L.		
	Phillips	Covington, N. Y	Mar. 21, 1829
Napping cloth	Zachariah Allen	Providence, R. I	Aug. 10, 1899 Feb. 2, 1830
Napping cloth	Zachariah Allen	Providence, R. I	Feb. 2, 1830
Napping cloth	Joseph Groff	Rapho, Pa	Feb. 10, 1830
Napping cloth	Fox	Lowell, Mass	June 23, 1830
Napping cloth	John Jewett	Dudley, Mass	Dec. 30, 1830
Napping cloth	Eliakim Benham	Roxbury, Mass	Jan. 22, 1833
Napping cloth	Reuben Daniels	Woodstock, Vt	June 26, 1835
Napping cloth	Stephen Marsh	Jericho, Vt	Jan. 11, 1826
Napping cloth	Benjamin Swazey	Mount Vernon, Vt.	Aug. 8, 1837
Napping cloth, and brushing	John Bryan and S. D.		
	Fuller	Mendam co., N. J	April 4, 1890
Napping cloth, and carding	Jos. A. Christie	Elizabethtown, N. J.	Jan. 24, 1816
Napping cloth machine, called cross	John Taylor and John		35 4 3046
napping machine.	Smith	New Lebanon, N.Y.	May 4, 184
Napping cloth, shearing and brush-	John J. Bryant	Andover, N. H	Sept. 2, 1816
Napping cloth, and steaming	S. R. Parkhurst	Providence, R. I	June 24, 1834
Napping cloth, teasling & brushing		Waltham, Mass	Oct. 28, 1815
Napping cloth, vibrating	Samuel Duncan	Nerthampton, N. Y.	Jan. 21, 1898
Napper, metallic	John M. Pratt	Dudley, Mass	Oct. 3, 1838
Napper, teasling cloth	James Olney	Westmoreland, N.Y.	Mar. 29, 1817
Napper, teasling cloth	Josiah Beckwith	Lyme, Conn	May 16, 1817
Napper, teasling cloth	Aaron Foster	Poultney, Vt	May 16, 1817 Nov. 25, 1818
Napper, teasling cloth	Aaron Foster	Whitestown, N. Y	Aug. 24, 1891.
Not or seine making machine	John McCullen		June 27, 1846
Oakum, machinery for manufac-	Thaddeus, Henry and		T
ture of.	Daniel Tibballs James Tibbals		July 8, 1843 Feb. 8, 1839
Oakum, making	Daniel French	Haddam, Ct	Feb. 8, 1839 : Oct. 9, 1895
Oakum, picking	Michael Morrison	Middletown, Conn New Bedford, Mass.	Feb. 14, 1896
Oakum, picking	Daniel Rider	New York	
Oakum, picking	E. Waterhouse		April 24, 18961
Oakum, picking	Ebenezer Cook		April 24, 1896ī July 9, 1832
	r		• • • • • • • • • • • • • • • • • • • •

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Oakum, picking	Ebenezer Cook & Selden Usher Hiram Burnham Otis Allen. Jno. Stanbury & Wm. Ridgway, jr R. B. Lewis Daniel Sampson. Isaac Maccauley Deborah Powers, adm'x of Wm. Powers Ralph Hodgson. Otis Ferrin.		Jan. 17, 1842 June 25, 1836 May 30, 1637 April 4, 1825
Oakum, picking	den Usher Hiram Burnham Otis Allen Jno. Stanbury & Wm. Ridgway, jr R. B. Lewis Daniel Sampson Isaac Maccauley Deborah Powers, adm'x of Wm. Powers Ralph Hodgson	Boston, Mass Tewksbury, Mass Baltimore, Md Hallowell, Maine Winthrop, Maine Philadelphia, Pa Lansingburg, N. Y.	Oct. 5, 1838 July 16, 1842 Jan. 17, 1842 June 25, 1836 May 30, 1837 April 4, 1825
Oakum, picking	Hiram Burnham Otis Allen Jno. Stanbury & Wm. Ridgway, jr. R. B. Lewis Daniel Sampson Isaac Maccauley Deborah Powers, adm'x of Wm. Powers Ralph Hodgson	Boston, Mass Tewksbury, Mass Baltimore, Md Hallowell, Maine Winthrop, Maine Philadelphia, Pa Lansingburg, N. Y.	Oct. 5, 1838 July 16, 1842 Jan. 17, 1842 June 25, 1836 May 30, 1837 April 4, 1825
Oakum, picking	Otis Allen	Tewksbury, Mass Baltimore, Md Hallowell, Maine Winthrop, Maine Philadelphia, Pa Lansingburg, N. Y.	July 16, 1842 Jan. 17, 1842 June 25, 1836 May 30, 1837 April 4, 1825
Oakum picking, combination of machinery for. Oakum and hair, picking Oil cloth, drying Oil cloth, manufacture Oil silk, manufacture Painting cloth Paper, &c., applying paste or siz-	Jno. Stanbury & Wm. Ridgway, jr R. B. Lewis Daniel Sampson Isaac Maccauley Deborah Powers, adm'x of Wm. Powers Ralph Hodgson	Baltimore, Md Hallowell, Maine Winthrop, Maine Philadelphia, Pa Lansingburg, N. Y.	Jan. 17, 1842 June 25, 1836 May 30, 1637 April 4, 1825
machinery for. Oakum and hair, picking Oil cloth, drying Oil cloth, manufacture Oil silk, manufacture Painting cloth Paper, &c., applying paste or siz-	Ridgway, jr	Hallowell, Maine Winthrop, Maine Philadelphia, Pa Lansingburg, N. Y.	June 25, 1836 May 30, 1837 April 4, 1825
Oakum and hair, picking Oil cloth, drying Oil cloth, manufacture Oil silk, manufacture Painting cloth Paper, &c., applying paste or siz-	R. B. Lewis. Daniel Sampson. Isaac Maccauley. Deborah Powers, adm'x of Wm. Powers Ralph Hodgson.	Hallowell, Maine Winthrop, Maine Philadelphia, Pa Lansingburg, N. Y.	June 25, 1836 May 30, 1837 April 4, 1825
Oil cloth, drying Oil cloth, manufacture Oil cloth, manufacture Oil silk, manufacture Painting cloth Paper, &c., applying paste or siz-	Daniel Sampson Isaac Maccauley Deborah Powers, adm'x of Wm. Powers Ralph Hodgson	Winthrop, Maine Philadelphia, Pa Lansingburg, N. Y.	May 30, 1637 April 4, 1825
Oil cloth, manufacture Oil cloth, manufacture Oil silk, manufacture Painting cloth Paper, &c., applying paste or siz-	Isaac Maccauley Deborah Powers, adm'x of Wm. Powers Ralph Hodgson	Philadelphia, Pa Lansingburg, N. Y.	April 4, 1825
Oil cloth, manufacture Oil silk, manufacture Painting cloth Paper, &c., applying paste or siz-	Deborah Powers, adm'x of Wm. Powers Ralph Hodgson	Lansingburg, N. Y.	•
Painting cloth	m'x of Wm. Powers Ralph Hodgson	Lansingburg, N. Y.	
Painting cloth		Mary Vank	Feb. 18, 1832
Paper, &c., applying paste or siz-	Otis Ferrin	New York	Feb. 1. 1793
		Lansingburg, N. Y.	Nov. 28, 1831
ing to sheets of, &c., in the pro-			
_ cess of making cards, &c	David H. Gibert	Dorchester, N. Y	April 11, 1842
Paper, books, &c., machine for			3.5
cutting.	Joseph Woodhouse		May 30, 1835
Paper, brown, from beach grass.	Isaac Sanderson		
Paper, cane hemp, making	B. C. Smith	Burungton, N. J	Nov. 21, 1843
Paper, carbonated, for multiplying	Torumh Wantshama	Dhiladalahia Da	A
Paner sloth for steining and	Joseph Hartshorne	rnimureipnia, ra	April 20, 1019
Paper, cloth, &c., staining and	Benjamin Mestayer	New York	Tuna 99 1916
Paper, cutting machine	John McClintic & Geo.	New LOIR	June 20, 1013
Laper, cutung macinie		Chambersburg, Pa	Dec 18 1995
Paper, cutting machine	Francis B. Howell	Lockport Ohio	May 91 1830
Paper, cutting machine	John Shugert	Quincy. Pa	Dec. 14, 1830
Paper, cutting machine.	Edward Pine	Trov. N. Y.	July 20, 1831
Paper, cutting & trimming books *	Frederick J. Austin	New York	June 16, 1841
Paper, cutting and trimming the			
edges	Jonas Bateman	Harvard, Mass	Mar. 12, 1834
Paper, cutting and trimming in the			
ream	John Ames	Springfield, Mass	Feb. 28, 1834
Paper, cutting in sheets	John Ames	Springfield, Mass Shirley, Mass Milton, Mass	Feb. 28, 1834
Paper, cylinders for drying	H. P. Howe	Shirley, Mass	Sep. 20, 1836
Paper, cylindrical machine	Isaac Sanderson	Chirles Mass	April 18, 1829
Paper, drying	Henry Howe	Shirley, Mass	
Paper, engine morphotor	William Dickinson	Worcester, Mass	Dec 21 1990
Paper, engine regulator	John M. Hollingsworth Clarke Rice	Braintree, Mass	April 96 1924
Paper, finishing	Irah White & L. Gale.	Watertown, N. Y Newberg, Vt	Reh 98 1897
Paper, finishing machine	Thomas Gilpin	Philadelphia; Pa	June 25, 1830
Paper, hangings, printing	Peter Force	Washington, D. C.	Aug. 22, 1822
Paper, hangings, with satin grounds		Hudson, N. Y	Sep. 8, 1813
Paper, hot pressing		Salisbury, Pa	July 31, 1809
Paper, leather	Ephraim F. Blank and		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
• 1	Thomas Blank	New York	Feb. 16, 1830
Paper, on machines, manufactur'g	Richard Waterman &		_
	Geo. W. Annis	Providence, R. I	Aug. 30, 1828
Paper, machine	John Ames	Springfield, Mass	
Paper, mach'e for prepar'g top, &c.	Abm. Frost		Mar. 19, 1804
Paper, machine for separating sand,			1
&c., from pulp, in the manufac-	197 Distan	0	D. 01 1045
ture of	Wm. Bishop	Deportry, Conn	Mer. 31, 1645
Paper, making	John Biddis	New Icens	Dec 14 1700
Paper, making	Robert R Timinger	New Vork	Oct. 28, 1799
Paper, making	Thomas Language	Rucke county Pr	May 1 190
Paper, making	Charles Kinger	Essay N. I.	May 8 1901
Paper, making	Thomas Gilnin	Philadelphia. Pa	Dec. 24 1816
Paper, making	John B. Piermtelle	New York	Dec. 2, 1819
Paper, making	John Ames.	Springfield, Mass.	May 14. 189
Paper, making	Isaac Burbank	Worcester, Mass	Sep. 8. 182

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, mengerighes on perceptions.	PATEMPIÄM.	normancs.	WHEN SHIPPS
Paper, making	Gardiner Burbank	Wonester Mess	April 12, 199
Paper, making	Andrew Sprague and	Worcester, Mass	whin re' ree
-	Nich. A. Sprague	Fredonia, N. Y	Oct. 31, 1826
Paper, making	Joseph Truman	Bridgeport, Pa	Feb. 28, 183
Paper, making	Charles Forbes	East Hartford, Ct	Feb. 20, 1836
Paper, making*	Wm. & Abij.L.Knight & Edward F. Condit	Whippany, N. J	Sept. 25, 1839
Paper, making	John M. and Lyman Hollingsworth	Boston, Mass	Dec. 4, 184
Paper, making, agitator	Reuben Fairchild	Trumbull, Conn	May 4, 182
Paper, making from corn husks	Burgess Allison & Jno.		
Paper, making card	Hawkins Edward L. Perkins	New Jersey Boston, Mass	Dec. 30, 1805 July 10, 1840
Paper making, ruling and cutting	Laward D. Lorams	Dostoli, Mass	July 10, 1040
at one operation	John Ames	Springfield, Mass	July 31, 1846
Paper,making,from curriers' shav-	Tononh Comdit in		
Paper, making, filtering for	Joseph Condit, jr Thomas Trench		
Paper, making, by the flat press.	Marsden Haddock		
Paper, making, from pelts	John McThorndike		
Paper, making, from rags, whiten-			
ing straw	John W. Cooper	Wash'g'n town'p Pa. Plymouth, Mass	Feb. 7, 1829
Paper, making, from sea grass	Elisha H. Collier		
Paper, making, from sea weed Paper, making, from straw, &ct.	Samuel Green William Magaw	New London, Conn. Meadville, Pa	
Paper, making, top press roller for		Waterbury, Mass.	Oct. 20, 1828
Paper, manufacturing			Mar. 12, 1832
Paper, manufacturing		London, England	Aug. 9, 1845
Paper, manufacturing, for covered buildings	Frederick A. Taft	Dedham, Mass	May 11, 1832
Paper, manufacturing, from wood	Lewis Wooster and J.		
Paper, mark of opacity in	B. Holmes John Reich and Edw.	Meadville, Pa	
Paper, moulds	John Carnes	Philadelphia, Pa Delaware	
Paper, moulds		Whitestown, N. Y.	July 7, 1809
Paper, polishing	George Bird		
Paper, polishing machine	William Coolidge	Boston, Mass	
Paper, preparing husks to make Paper, press, cylinder, hot & cold.	Homer Holland Asahel H. Jervis and	Westfield, Mass	Aug. 13, 1836
, , . , . , ,	Thomas Trench	Ithaca, N. Y	Nov. 6, 1832
Paper, sand, glass, or emery	Edmund Morris	Philadelphia, Pa	
Paper, sizing	John Ames	Springfield, Mass	
Paper, sizing	W. W. Wilson and	Alstead, N. H	Nov. 19, 1833
_	Charles Dickerman .	Westfield, Mass	Aug. 3, 1839
Paper, sizingt	John Ames	Springfield, Mass	
Paper, sizings	Lorenzo D. Brown	Lee, Mass	
Paper, trimming machine Paper, trimming machine	Parke Shee John McClintic	Philadelphia, Pa Chambersburg, Pa	Feb. 7, 1807
Paper, vata, heating pulp in	Joseph Robeson	Montgomery, Pa	May 22, 1816
Paper, for walks	James P. Howland and		
Paper, water marks	Alfred Griswold Jac. Perkins and Tho-		_
Pastahand & manufacturing	mas Gilpin		Dec. 18, 1816
Pasteboard, &c., manufacturing Paste paper, for band-boxes	Frederick A. Taft Isaac Sanderson	Dedham, Mass Milton, Mass	
Picker, cotton.	J. Pennell & H. Maxon		Oct. 10, 1896
	Jesse Whitehead	Godwinville, N. J	
Picker, and lap machine			
Picker, and spreading cotton	John C. Whiten		
Picker, and spreading cotton Picker, wool	Michael Morrison	Boston, Mass	Aug. 15, 1811
Picker, and spreading cotton	Michael Morrison Beriah Brown	Boston, Mass Exeter, R. I	Aug. 15, 1811 Sept. 2, 1822

-mentional or description	PA RROTTES.	abouteres.	which more.
Plates, for pressing woollen cloths	Volkert Vedder	Amsterdam, N. Y	Feb. 6, 1811
Printing, calico	Alexander Boyd	Providence, R. I	April 22, 1845
Pulp, dresser	Elihu H. Thomas and	2 10 12 01 21 1 1 1	
_ u.p,	Nathan Woodcock.	Brattleborough, Vt	Aug. 11, 1830
Pulp, dresser	Coleman Sellers	Philadelphia, Pa	June 6, 1832
Pulp, preparing and dressing	John Ames	Springfield, Mass	Sept. 1, 1832
Pulp, sifter	Sidney A. Sweet	Tyringham, Mass	Dec. 31, 1833
	James Sawyer	Newbury, Vt	Jan. 21, 1832
Pulp, washing	Francis Goucher	Chester county, Pa	April 12, 1833
Pulp dressing, of which paper is		,,	
made	Nathaniel Hebard	Dorchester, Mass	Dec. 27, 1839
Rags, boiling and washing for the			
manufacture of paper	George Spafford	Windham, Conn	Sept. 2, 1840
Rags, cleanings	William Debit	East Hartford, Conn.	Jan. 13, 1828
Rags, cleaning	George Carriel	Manchester, Conn	July 27, 1831
Rags, cleaning	George Carriel	Manchester, Conn	Feb. 7, 1832
Rags, cleaning	William Debit	Hartford, Conn	July 1, 1836
Rags, cleaning and dusting	Samuel E. Foster	Brattleborough, Vt.	June 1, 1832
Rags, cleaning machine for	James Phelps	West Sutton, Mass.	Nov. 24, 1843
Rags, cutting	Moses Y. Beach	Springfield, Mass	Oct. 11, 1828
Rags, dusting	E. Burt and G. Carriel	Manchester, Conn	Nov. 28, 1836
Rags, dusting	Enoch Burt	Manchester, Conn	Sept. 14, 1838
Rags, dusting and tearing	Henry Clark and Wil-		
2	liam Albertson	New London, Conn.	Sept. 19, 1838
Rags, preparing		Northampton, Mass.	
Rags, washing	John Ames	Springfield, Mass	April 6, 1831
Rags, washing		opinigation, name	11/111 0, 1001
	Ames, assignees of		
į	Samuel Eckstein	Philadelphia, Pa	June 13, 1831
Raes, washing	Robert Carter	Elkton, Md	Feb. 22, 1838
Rags, washing	Gerard Sickles	Middletown, Conn	
Reeling, spinning, and twisting silk	Jacob Pratt	Sherburne, Mass	Oct. 12, 1839
Ribbons, smoothing and glazing		New York	Jan. 27, 1817
Rollers, calendering, heating, for			.,
glazing.	Keyes, jr	W.Boyleston, Mass.	April 1, 1896
Rollers, covering, for sizing		Stratford, N. H	
Rolling, vibratory, for cotton or		,	
wool	Jesse Hopkins	Strasburg, Pa	Jan. 14, 1824
Ropes.—See Hides, Class 16.	•	,	, , , , , , , , , , , , , , , , , , , ,
Ropes, machinery for laying	S. & James A. Bazin.	Canton, Mass	Feb. 28, 1844
Ropes, making		,	, ,
,	signee of Edward S.	1	1
	Townsend	Palmyra, N. Y	Feb. 28, 1845
Sand paper			June 14, 1834
Sand paper		Springfield, Vt	June 14, 1834
Sand paper			June 14, 1834
Sand paper, softening	Isaac Fisher. ir	Springfield. Vt	June 14, 1834
Sewing machine	Elias Howe, ir	Cambridge, Mass	Sept. 10, 1846
Shearing cloth	Beriah Swift	Washington, N. Y.	
Shearing cloth		Kinderhook, N. Y.	May 8, 180
Shearing cloth		Princeton, N. J	June 23, 180
Shearing cloth	Simpson Stewart, E.		,,
	Hovey, and James	d.	1
	Henderson	Pittstown, N. Y	June 21. 1866
Shearing cloth	David Dewey	Poultney, Vt	June 27, 1886
	Eben Sprague	Danbury, Conn	May 9, 1816
Shearing cloth		101	May 15, 1816
Shearing cloth	Heman Matthews	Delaware	
Shearing cloth	Heman Matthews	New York	May 24. 181
Shearing cloth	Heman Matthews Beriah Swift	New York	May 24, 1810
Shearing cloth	Heman Matthews Beriah Swift Ezra Wilmarth	New York	May 24, 1810 Feb. 28, 181
Shearing cloth Shearing cloth Shearing cloth Shearing cloth Shearing cloth	Heman Matthews Beriah Swift Ezra Wilmarth Benjamin Cummings. George C. Kellogs	New York	May 24, 181 Feb. 28, 181 March 2, 181 March 4, 181
Shearing cloth Shearing cloth Shearing cloth Shearing cloth Shearing cloth	Heman Matthews Beriah Swift Ezra Wilmarth Benjamin Cummings. George C. Kellogs	New York	May 24, 1816 Feb. 28, 181 March 2, 181 March 4, 181
Shearing cloth Shearing cloth Shearing cloth Shearing cloth	Heman Matthews Beriah Swift Ezra Wilmarth Benjamin Cummings. George C. Kellogs	New York	May 24, 1816 Feb. 28, 181 March 2, 181 March 4, 181

^{*} Reterred July 21, 1995.

MARKALIS OF DISCOMBING	PATENTINGS.	, minimagnesser	WHEN SHIPPS
Shearing cloth	William Stillman	Westerly, R. I	June 11, 1900
Shearing cloth	Walter Kennedy	Frankfort, Ky	June 12, 100
Shearing cloth	Gershom Bostwick	Brookfield, Conn	Sept. 28, 100
Silearing cloth	George Booth	Poughkeepsie, N. Y.	Oct. 13, 144
Shearing cloth	Isaac Sanford	Providence, R. I	Mar. 26, 166
Shearing cloth	Beriah Swift	Washington, N. Y	July 1, 1814
Shearing cloth	C. H. Orth and Frede-		, -, - , -,
	rick Strohn	Steubenville, Ohio	Oct. 11, 1814
Shearing cloth	Horace Osborne and	,	
	William L. Frazer.		April 25, 1816
Shearing cloth	John D. Smith	Fredericktown, Md.	May 24, 1816
Shearing cloth	Eliphalet Remington	Frankfort, N. Y	Aug. 13, 1817
Shearing cloth	William Stillman	Westerly, R. I	Jan. 17, 1818
Shearing cloth	David Dewey	Rutland county, Vt.	
Shearing cloth	Seth Parsons	Hosack, N. Y	March 2, 1819
Shearing cloth	Elihu Hotchkiss and		
	Aaron Jaque	Brattleborough, Vt	Dec. 15, 1819
Shearing cloth	Zach. Cary	Oxford, Maine	Feb. 20, 1821
Shearing cloth	Ezra Heald	Norridgewock, Me	Dec. 4, 1822
Shearing cloth	Beriah Swift	Washington, N. Y	Feb. 7, 1894
Shearing cloth	William Hovey	Worcester, Mass	Dec. 17, 1824
Shearing cloth	James Collins	Anson, Maine	March 6, 1827
Shearing cloth	Isaac Kellogg and Geo.		
G	C. Kellogg	New Hartford, Conn.	April 7, 1828
Shearing cloth*	Reuben Daniels	Woodstock, Vt	May 13, 1834
Shearing cloth	John Davidson	Springfield, Vt	May 29, 1834
Shearing cloth, &c., diamond figure		Watervliet, N. Y	
Shearing cloth, and laying the nap		Scahticoke, N. Y	
Shearing cloth, revolving shears	James Collins	Anson, Maine	
Shearing cloth, shears for	Samuel A. Britt	Cazenovia, N. Y	
Shearing cloth, by wheel of knives	Samuel G. Dorr	Albany, N. Y	
Shearing machine	Silas Hills	Hudson, N. Y	
Shearing machine	William Stillman	Westerly, R. I	April 28, 1815
Shearing machine, horizontal	Thomas Blanchard	Sutton, Mass	May 4, 1813
Shearing machine, or shears with			1
curved edges	Samuel Fry	New York	Nov. 20, 1823
Shearing machine, vibrating	David Dewey	Poultney, Vt	Dec. 7, 1814
Shearing machine, zigzag	Edmund Durrin	Weatherfield, Vt	Jan. 21, 1814
Shearing nap from woollen cloth	Merritt Hurd	Augusta, N. Y	Dec. 7, 1839
Shearing sattinets and other wool-		1	
len goods	James Pitts	Smithfield, R. I	
Shearing wool and cloths	Samuel Kellogg	Vermont	
Shearing wool	Eb. Stowell	Worcester, Mass	
Shearing woollen cloths	Liberty Stanley	Massachuseus	
Shearing woollen cloths	Friend B. Kellogg	Marlborough, Mass.	
Shearing woollen cloth	Reuben Daniels	Woodstock, Vt	
Shearing woollen cloth:	Seth Parsons	Hoosic Falls, N. Y.	
Silk finishing, machinery for	Thomas White	Mount Pleasant, O	
Silk reel, driving with foot	Aaron Clarke	Greenwich, Conn	Jan. 20, 1841
Silk, recling from the cocoons, ma-	Carra III	Chantana 363	D. 10 1040
chinery for	George Heritage	Chestertown, Md	Mer. 10 1990
Silk reel	Eliphalet Snow	Mansfield, Conn	Mar. 16, 1832
	Charles G. Greene	Windsor, Vt	Dec 90 1032
Silk, reeling	Jonathan Dennis, jr	Portsmouth, R. I	Dec. 20, 1030
Salk, reel for reeling	A. B. Jones, assignee		Feb 10 1940
Silk reals	of William H. Jones James S. Harris		Feb. 12, 1842
Silk reels		Poultney, Vt Chestertown, Md	Nov 96 1940
	George Heritage		
Silk throwing or twisting	Gamaliel Gay	Philadelphia, Pa Poughkeepsie, N. Y.	Mor 0 1996
Silk, throwing or twisting	Lucillius H. Mosely	Doughkonnie N. Y.	Aug 17 1000
Silk, unwinding	Gamaliel Gay	Couch Coitness M.	Lune 00 1000
Silk, winding	Adam Brooks	South Scituate, Mass.	Tune 90 1000
			Nov 10 1941
war would be well and the second	A. T. THIRRING.		1 1404. 10, 1041
Silk, winding, gimp or cord Silkworms, cocoonary for	Adam Brooks	South Scituate, Mass.	June 20, 18

Relatived August 22, 1884. †Antedated Comber 7, 1837. † Antedated May 25, 1838.

- ANTIPUMANO OR DESCRIPTION	PARAMPARA.	PHOTOGRAP.	Altibri lettien
-fillingame feeding of apparatus for	Edmund Mouris	Burlington, N. J	June 16, 1942
Mikwomas, feeding of apparatus for	John W. Gill	Mount Pleasant, Ohio	May 12. 144
	Joshua Norton, jr	Boston, Mass	Anni 95 Mar
Speeder fliers	Erastus B. Bigelow	Boston, Mass	MAD. 24. 1
Spindle, mode of steadying the live	Alexander Anderson	Patterson, N. J	1404. 91, 1010
Spinning, accelerated	Leonard Norcross	Dixfield, Maine	June 15, 1836
Spinning, bobbins, method of ope-			
rating in machinery for spinning	D : M C D :	D	0 . 00 1044
fibrous substances	Francis McCully, jr	Patterson, N. J	Oct. 30, 1844
Spinning candle wick	Shalor Ives	Chillicothe, Ohio	May 17, 1890
Spinning, cap spinner, mode of driv-	Charles Danforth	Pauerson, N. J	April 91 1940
ing bobbins in	Onarce Daniora	1 44425011, 21. 5	April 21, 1842
Spinning, cap spinner, oiling the spindles or tubes of	Charles Danforth	Patterson, N. J	April 21, 1842
Spinning, cop speeder for	Truman Estes & War-		
	ren Dutcher	Bennington, Vt	July 26, 1839
Spinning cotton	William Pollard	Philadelphia, Pa	Dec. 30, 1791
Spinning cotton	Nehemiah Giles	Fitchburg, Mass	Nov. 19, 1812
Spinning cotton	L. Bissell, J. Hinman,		
	L. C. Hinman, and		
a : .	Benoni Gains	Hartwick, N. Y	June 19, 1813
Spinning cotton	L. Bissell, L. C. Hin-	O	
Garage and	man, and S. Wilson	Otsego, N. Y	July 17, 1815
Spinning cotton	Elisha Fuller	Attleborough, Mass.	Feb. 6, 1823
Spinning cotton	William Bryant	Mill creek, Tenn	Sept. 30, 1823
Spinning cotton	William Haworth John Brown	Providence t'nsp, Pa.	June 2, 1894 June 13, 1831
Spinning cotton	John L. Eddy	Stonington, Conn Killingly, Conn	Nov. 19, 1833
Spinning cotton	Welcome A. Potter	Cranston, R. I	Dec. 16, 1833
Spinning cotton	Asahel M. Lanpher	Killingly, Conn	Mar. 19, 1834
Spinning cotton	Welcome A. Potter	Cranston, R. 1	Mar. 28, 1834
Spinning cotton	William P. Brayton	New York city	June 25, 1836
Spinning cotton bagging	John C. Dewes	Mason county, Ky	Dec. 28, 1827
Spinning cotton, frame for	Paul Moody	Boston, Mass	May 6, 1819
Spinning cotton, frame for	William Bald, jr	Providence, R. I	
Spinning cotton, frame for	Paul Moody	Boston, Mass	
Spinning cotton seine twine	Thomas Rice	Petersburg, Va Killingly, Conn	
Spinning cotton and silk Spinning cotton twine	Samuel P. Mason Alson Pond	Petershurg Va	Jan. 17, 1834 April 21, 1839
Spinning cotton, water frame for	Stephen Clements	Petersburg, Va Hartford, Vt	Mar. 16, 1812
Spinning cotton and wool	G. Brewster, G. Trum-		200 2020
	bull, and J. Mathes.	Barre, Vt	Jan. 16, 1812
Spinning cotton and wool	Joseph Hathaway	Poultney, N. Y	July 24, 1896
Spinning cotton and wool	John W. Wheeler	Galway, N. Y	Oct. 11, 1898
Spinning cotton and wool	Levi Rice	Milburn, Mass	Nov. 14, 1831
Spinning cotton yarn	Peleg Arnold	Coventry, Conn	Aug. 1, 1818
Spinning cotton yarn	Luther Crane	Ware, N. H	Mar. 26, 1825
Spinning cotton yarn	John Thorpe	Providence, R. I	Nov. 11, 1830
Spinning cotton yarn and thread	John A. Bradshaw	Foxborough, Mass	Jan. 18, 1833
Spinning cotton yarn, and roping. Spinning cotton roving, &c., for	James Chesters	Cumberland, R. I	April 16, 1834
condensing	Jacob Graves	New Ipswich, N. H.	Sept. 1, 1843
Spinning cotton wool	Amander N. Wilcox.		
Spinning, double speeder or fly			
frame used in roving cotton	William C. Duvoll	Fall River, Mass	
Spinning, driving bobbins	William Baxter	Patterson, N. J	
Spinning filling, and slack twisted			
yarn	John Thorpe	Providence, R. I	Nov. 25, 1828
Spinning flax, cotton, and silk	John Bogardus	New York	May 25, 1830
Spinning flax, cylindrical frame	William Griffin	New York	Mon 17 1702
Spinning flax and hemp	George Parkinson	Philadelphia, Pa	
Spinning flax and hemp Spinning flax and hemp	W. Hunt and W. Has-	Greene county, N. Y.	
	King w. 1325	Martinsburg, N. Y.	June 22, 1826
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[&]quot;Antodoted Mar 81, 1866.

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ANTENNAMES OR DESCRIPTION.	PATRIFFERD.	nametre.	with them.
Spinning flax, recling and spooling	Noel Jones	Madison co., N. Y.	Mar. 14, 1629
Spinning, fliers	Samuel Ladd	Waltham, Mass	Feb. 20, 1886
Spinning, flier and dead spindle for	Phineas Stephens	Nashua, N. H	April 20, 1884
Spinning, fliers	Samuel Ladd	Waltham, Mass	May 6, 1836
Spinning, fliers, boring, &c See		·	_
Spinning, fliers, cotton	John Morse	Newton, Mass	June 25, 1836
Spinning, fliers, cotton yarn	Azariah Walton	Keene, N. Y	Jan. 6, 1812
Spinning, fliers, cotton yarn			Sept. 28, 1812
Spinning, fliers, cotton yarn	Nehemiah Giles		Nov. 19, 1812
Spinning, fliers, for double speeders	Utis Pettee	Newton, Mass	Mar. 28, 1834
Spinning, fliers, flax and hemp	H.Evans&B.Churchill		Sept. 26, 1838
Spinning, fliers, & spindles, cotton Spinning, fliers, & spindles, cotton	John Hoarth & Nathan		June 12, 1838
	Jones	Andover, Mass	Dec. 28, 1838
Spinning, fliers, for wheels Spinning hair of neat cattle	James Wilson William Shotwell and	Monroe county, Ky.	Feb. 16, 1833
	Arthur Kimball	New York	Nov. 4, 1813
Spinning hemp, &c	James Lang	Greenock, Scotland.	Jan. 16, 1834
Spinning hemp, &c	Moses Day	Roxbury, Mass	June 2, 1836
Spinning hemp and flax*		Flemingsburg, Ky	June 28, 1809
Spinning hemp and flax	John F. Chappins	New York	Nov 8, 1814
Spinning hemp and flax	Daniel Treadwell		Oct. 11, 1831
Spinning hemp and flax	Andrew Caldwell	Lexington, Ky	Aug. 20, 1835
Spinning hemp and other fibrous		Dank Mass	Tl. 10 1056
materials	Charles W. Brown		July 16, 1839
Spinning hemp, flax†	Moses Day		June 2, 1836
Spinning, hook spinner and twist-	Moses Day	MOXDURY, MINES	June 24, 1839
er, whirling and rotary	John Thorp	N. Wrentham Mass	Sent 97 1844
Spinning jenny	Cyrus Greenwood		
Spinning jenny and billy	Ebenezer Smith	Paris, N. Y	Mar. 23, 1814
Spinning jenny, vertical	James Matthews	Schenectady, N. Y.	May 2, 1826
Spinning machine	Jac. Alricks		
Spinning machine	Daniel Read	Brookfield, N. Y	Sept. 10, 1811
Spinning machine	Sylvanus Baldwin and Elisha Town		May 6, 1812
Spinning machine	Alpheus Webster	Greene co N V	Dec. 21, 1812
Spinning machine	Burgess Allison		Mar. 3, 1813
Spinning machine	John Brown		
Spinning machine	John Brown		
Spinning machine	Sylvanus Baldwin		
Spinning machine	Zaccheus Wheeler	Richmond, N. H	July 18, 1816
Spinning machine	John Brown		Aug. 11, 1821
Spinning machine			
a · · · · · ·		Lowville, N. Y	July 3, 1824
Spinning machine	D. Pool & A. Copeland		Dec. 24, 1824
Spinning machine	H. Hunt & C. Bradish	LOWVIIIe, IV. I	Dec. 31, 1824 Dec. 24, 1824
Spinning machine	Sidney White Samuel Slater	Middletown Vt	
Spinning machine	J. R. & J. B. Wheeler	Kingshurr N V	April 4, 1825 May 26, 1825
Spinning machine	J. R. & J. B. Wheeler	Galway N. V	Nov. 3 1896
Spinning machine	J. R. & J. B. Wheeler Nathaniel Remington.	Geneva, N. Y	April 21, 1827
Spinning machine.	Henry Wilson	Pomfret, N. Y	July 13, 1827
Spinning machine	John Thorpe	Providence, R. I	Dec. 31, 1828
Spinning machine	John Thorpe	Providence, R. I	Jan. 23, 1829
Spinning machinet	John Thorpe	Providence, R. I	Nov. 25, 1828
Spinning machine	John Thorpe		
Spinning machine	Warren Allen		
Spinning machine	Joseph B. Wheeler		Dec. 30, 1829
Spinning machine	John Brown		May 20, 1830
Spinning machine	James Churck, jr		May 22, 1830
Spinning machine	John Pearce		
Spinning machine	Ethan Bowen	LIUVRIOUCE, R. I	July 13, 1830
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^{*} Reissnad July S. 1912.

⁺ Bahassal Oat, 99, 1999.

			
Dirmilións or Discordings	PATERINGS.	remember.	WMMF 150000.
Spinning mashine	William Clarke	Poultney, N. Y	Oct. 1, 1895
Spinning machine	John Morgan	Manayunk, Pa	May 14, 1896
Spinning machine, domestic		Albany, N. Y	Aug. 17, 1810
Spinning machine, domestic		Lowville, N. Y	Sept. 3, 1824
Spinning machine, domestic		Schoharie, N. Y	Nov. 22, 1826
Spinning machine, domestic		Adams, N. Y	June 27, 1828
Spinning machine, domestic		Springfield, Pa	April 25, 1838
Spinning machine, family		g,	
	and G. Freeman	Jefferson co., Ohio	May 20, 1826
Spinning machine, family	William Jones	Thornville, Ohio	July 27, 1827
Spinning machine, family, and		,	,,,
bobbin winder	John Gill	Plumb towns'p, N.Y	Feb. 19, 1825
Spinning machine, family, cotton.	John G. Baxter		
Spinning machine, family, and fac-	John G. Danier.		0 4440 1440, 2012
tory	Richard Woolsey	Kortwright, N. Y	May 13, 182
Spinning machine, family, wool	W.Ayres & J.Cochran	Durham Vt	Oct. 6, 181
Spinning machine, horizontal	J. S. and B. J. Billings	Moreou N V	Jan. 16, 1826
Spinning machine, horizontal	D. Hunt & S. Wheeler		May 2, 1820
	Burgage Alliean	Dhiladalphia Da	
Spinning machine, portable	Burgess Allison	Dunlington N T	April 27, 1812
Spinning machine, portable	Burgess Allison	Burnington, N.J	June 28, 1814
Spinning machine, and receiving	Cilbant Barreton	Nammich Comm	Man 19 190
rolls of wool	Gilbert Brewster	worwich, Conn	Mar. 13, 1824
Spinning machine, stop motion of	Table Quelo	T 11 M	36 15 100
the drawing frames	Lewis Cutting	Lowell, Mass	May 15, 1834
Spinning machine, substitute for		**************************************	
flier	O. G. & N. Rogers:	Whitestown, N. Y	Aug. 28, 1824
Spinning mule, carriage for cotton		Providence t'wn'p Pa	June 2, 1824
Spinning mule, cotton	Thomas Walker	Chester county, Pa	June 26, 1826
Spinning mule, drums		Philadelphia, Pa	Dec. 30, 1828
Spinning mule, head			Feb. 22, 1833
Spinning mule, self acting*		Perth, Scotland	June 27, 1836
Spinning mule, self operating	Ira and A. Gay	Dunstable, N. H	April 10, 1829
Spinning, mule, self-acting for	Dan'lLapham,adm'rof		
	Benj. Lapham, dec'd		
Spinning, mule, self-acting for		Taunton, Mass	Oct. 8, 1840
Spinning, mule, self-acting, bil- leys, &c			
_ leys, &ct	Richard Roberts	Manchester, England	
Spinning and quilling, with heads.		Long Meadow, Mass	April 18, 1814
Spinning railway, drawing head	William D. Lannard	EMakidi N V	Same 16 1999
for	William B. Leonard	Fishkill, N. Y	Sept. 16, 1833
Spinning, regulating the drag of the		Manchestan Va	June 18, 1842
yarn in the operation of		Manchester, Va	Des 0 1092
Spinning reel	Samuel McCawley	Fallston, Pa	Dec. 2, 1834
Spinning and reeling	Caleb Shilliday & Geo.	Shallannilla Was	04 1014
G=::	McCaston	Shelbyville, Ky	
Spinning and reeling	Joseph Woodhull	Chester, N. Y	Nov. 14, 1826
Spinning, ring spinner		Laurel factory, Md.	July 23, 1841
Spinning, roping		Rensselaer co., N.Y. Davidson, co., Tenn.	July 22, 1819
Spinning, roping, cotton			April 29, 1810
Spinning, roping, cotton		Boston, Mass	Jan. 19, 1821
Spinning, roping, cotton		Boston, Mass	
Spinning, roping, cotton	SilasShepard& C.Dean		Mar. 23, 1821
Spinning, roping, cotton	Asa Arnold	N. Providence, R. I.	Jan. 21, 1823
Spinning, roping, cotton	Gilbert Brewster	Poughkeepsie, N. Y.	Mar. 28, 1827
Spinning, roping, cotton	Asa Whitman and Joel		.
	Baker	Walpole, Mass	July 20, 1831
Spinning, roping, cotton	John A. Bradshaw	Foxborough, Mass.	Dec. 8, 1832
Spinning, roping, cotton	Lucillius H. Moseley.	Lisbon, Conn	Nov. 19, 1833
Spinning, roping, cotton	Lewis Brewster, adm'r		
	of Gilbert Brewster .	Poughkeepsie, N. Y.	Dec. 17, 1834
Spinning, roping, cotton	William Fowler	Fishkill, N. Y	Mar. 23, 1836
Spinning, roping, cotton	Charles Danforth	Patterson, N.J	Feb. 18, 1841
Spinning, roping, cotton, &c	Sidney Whiting	Franklin, Mass	Nov. 17, 1894
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^{*}Antedated Feb. 30, '34. † Antedated Dec. 16, '40. † Add Simpson's Dec. 31, '48. | Reissued Aug. 10, '38.

Committee of the commit			
- PAPULATROMS OR DISCOURAGE.	Pathwryng.	recognon.	WHEN MARK.
Spinning, roping, cotton, &c., by			
hand	John Brown	Providence, R. L	Jan. 23, 1821
Spinning, roping, cotton and wool.	John Brown	Providence, R. I	Aug. 8, 1812
Spinning, roping, cotton and wool.	William Whitehead	Patterson, N. J	April 11, 1825
Spinning, roping, and doubling cot-			35 10 100
ton, silk	James Jones	Manchester, England	
Spinning, roping, flax and hemp.	George Brown	Scanticoke, N. Y	
Spinning, roping, flax & hemp, &c.	Daniel Treadwell	Boston, Mass	Feb. 3, 1834
Spinning, roping, or slubbing, woollen	Austin Steele	Waterbury, Conn	Anril 1 1890
Spinning, roping, & twisting cotton			
Spinning, roping, & twisting, from		2 0000000000000000000000000000000000000	
speeders.	M. Germond	Union Vale, N. Y	Nov. 24, 1824
Spinning, roping, and winding			
cotton	David Grieve	Providence, R. I	Sept. 18, 1818
Spinning, roping, wool	Samuel Lerned	Watertown, Mass	Aug. 3, 1815
Spinning roping, wool	J. R. & J. B. Wheeler		Aug. 28, 1826
Spinning, roping, wool and cotton		Scahticoke, N. Y	Dec. 3, 1811
Spinning, roping, wool and cotton		Providence, R. 1	July 22, 1819
Spinning, roping, wool and cotton		Lowville, N. Y	Aug. 16, 1824
Spinning, roping, wool and cotton		Delaware co N. Y.	Same On 1004
Crimnian rouing recol and action	Burdock	Kortwright, N. Y.	Sept. 29, 1824 May 30, 1825
Spinning, roping, wool and cotton Spinning, roping, wool and cotton		Sandlake, N. Y	June 10, 1826
Spinning, roving		Summano, III. I	June 10, 1020
~p.m.m.g, roving.	Moses Pike	Harrisburg, Pa	April 15, 1813
Spinning, silk, &c			
,g,,	S. Stevens	New York	Oct. 10, 1829
Spinning silk, &c		Scituate, Mass	June 29, 1833
Spinning silk, &c		Northampton, Mass.	
Spinning silk, doubling & twisting	Jonathan Dennis, jr	Portsmouth, R. I	Dec. 28, 1838
Spinning silk from cocoons, ma-	a	(d)	D. 10 1040
chinery for		Chestertown, Md	Dec. 19, 1840
Spinning, speeder for cotton roping	Jesse Whitehead	Manchester Va	May 90 1947
Spinning, speeder, cotton	Luman Parmelee	Manchester, Va Poughkeepsie, N. Y.	May 29, 1841
Spinning speeder, cotton roving	Samuel P. Mason	Leesville, Conn	June 24, 1830
Spinning, speeder, cotton, roving.	William Mason	Taunton, Mass	May 4, 1838
Spinning, speeder, counter-twist'g		Morton, Mass	
Spinning, speeder, double	Paul Moody	Boston, Mass	April 3, 1819
Spinning, speeder, double, No. 1.	Jonathan Fish	Medway, Mass	Dec. 7, 1820
Spinning, speeder, double, No. 2.	Jonathan Fish	Medway, Mass	
Spinning, speeder, double, No. 3.			Dec. 7, 1820
Spinning, speeder, double, No. 4.	Jonathan Fish		Dec. 7, 1829
Spinning, speeder, double, No. 5 Spinning, speeder, double,	Jonathan Fish		Dec. 7, 1820
Spinning, speeder, double,	Paul Moody Paul Moody	Boston, Mass	Feb. 19, 1821
Spinning, speeder, double	William Field		
Spinning, speeder, double combi-			, 2000
nation	Jonathan Fish	Medway, Mass	Dec. 7, 1828
Spinning, speeder, double, winding			•
cotton	William Hines	Coventry, R. I	Feb. 6, 1819
Spinning, speeder, double, eclipse,			
for cotton roping	Gilbert Brewster	Poughkeepsie, N. Y.	
Spinning, speeder, flier	Peleg Armold		
Spinning, speeder, twisting			Oct. 1, 1830
Spinning, spindle	Asa Jillson	Dorchester, Mass	May 27, 1815
Spinning, spindle, and bobbin, for cotton	Wm. B. Leonard	Fishkill, N. V.	Jan. 9, 1819
Spinning, spindle, cotton	Benjamin Brundred		July 14 1897
Spinning, spindle, cotton		Dudley, Mass	Nov. 3. 1832
Spinning, spindle, dead			
Spinning, spindle, diminishing fric-			
tion		Clermont, N. Y	Aug. 4, 1791
6 & Additional Susanna		Balancel Back 00 1690	

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INVENTIONS OR DISCOVERIES.	PATENTEE:	moldence.	Wester street.
Spinning, spindle, and flier	Asa Jillson.	Roxbury, Mass	July 17, 1000
Spinning, spindle, and filer	W. T. Eddy	Roxbury, Mass Ithaca, N. Y	Feb. 19, 1805
Spinning, spindle, flier and bobbin	Thomas Godden	Saddle River t'p, N.J	Feb. 11, 1888
Spinning, spindle, preventing fric-	7 0 0 1		
Spinning, spindle, rotary and sta-	J. G. Sholtz	Pickaway town p, O.	July 6, 1827
Cionary.	C. Jackson, St. S. Pot- ter, & John Miller	Providence, R. I	April 2, 1835
Spinning, spindle, still and can,			
roping	John Irwin	Coventry, R. I	Mar. 26, 1830
Spinning, spindle, wool	Russel Phelps	Andover, Mass	Dec. 21, 1896
Spinning, splicing cotton & wool- len rolls	Gardner Barton, jr	Shaftsbury, Vt	April 22, 1826
Spinning thread, of wool	William Bell	Fayette co., Ky	June 1, 1825
Spinning, throstle	Samuel Blydenburg	New York	Nov. 10, 1829
Spinning, throatle	Charles Danforth	Patterson, N. J	April 1, 1836
Spinning, throatle, bobbin & spool		Patterson, N. J	Aug. 16, 1826 Jan. 17, 1824
Spinning, throstle, cotton spinner. Spinning, throstle frame	Benjamin Brundred Henry Ruggles	Mamaroneck, N. Y. New York	Nov. 24, 1829
Spinning, throstle frame, and bob-		Providence & Gran-	
bin regulator.	Standish.	ston, R. I	June 13, 1831
Spinning, throstle frame, & spin-	0.4.0	n n .	 T-= 10 1000
ning cotton	Seth Simmons	Providence, R. I	
Spinning, throstle, spindle Spinning, throstle, spindle	C. Lewis & C. Taylor Gilbert Brewster	Poughkeepsie, N. Y Norwich, Ct	June 26, 1829 Mar. 13, 1824
Spinning, throstle, spindle frame.	Benjamin Brundred	Oldham, N. J	May 7,-1830
Spinning, throstle, wool, &c	Stephen Shallcross	New York	Jan. 21, 1814
Spinning and twisting cotton	John Thorpe	Providence, R. I	Nov. 20, 1828
Spinning, twisting, & kinking hair Spinning and twisting, machine for	Hiram Burnham Charles Danforth	New York, N. Y Patterson, N. J	June 22, 1849 May 4, 1841
Spinning and twisting straw, hay,	Chares Damerun	1 attorison, 11. J	144y 4, 1041
&c	Philo G. Sheldon	Winchester, Ct	April 8, 1835
Spinning and twisting thread	Obadiah Herbert	Mt. Picasant, N. J.	Jan. 26, 1792
Spinning wheel	Amos Miner	Marcellus, N. Y Poultney, Va	Nov. 16, 1803
Spinning wheel	Tim. Cruttenden Ob. Seely	routiney, va	April 6, 1808 Aug. 6, 1808
Spinning wheel	William Drury	Brookfield, Mass	Mar. 19, 1810
Spinning wheel	James Shaw	Brookfield, Mass Herkimer, N. Y	April 27, 1812
Spinning wheel	Daniel Hurlbutt	Aurelius, N. Y	Aug. 4, 1813
Spinning wheel	Harvey Wright & O. Roberts	Bristol, Ct	Mar. 26, 1814
Spinning wheel	Elias B. Sanford	Newton, Ct	April 11, 1816
Spinning wheel	James Wright	Campbell co., Ky	Feb. 28, 1817
Spinning wheel	Timothy Cruttenden	New York	May 12, 1817
Spinning wheel	Zalmon T. Bradley John Brown	Gt. Barrington, Mass	April 21, 1818 June 19, 1818
Spinning wheel	Henry Wilson	Providence, R. I Mendon, N. Y	Dec. 29, 1818
Spinning wheel	Chas. F. Schaffle	Lewisburg, Pa	Feb. 28, 1834
Spinning wheel	Guy Brooks	Athel, N. Y	April 2, 1894
Spinning wheel, cordage	William B. Dyer	Baltimore, Md	Feb. 27, 1808
Spinning wheel, heads	Amos MinerArchelaus Putnam	Marcellus, N. Y Philadelphia, Pa	April 11, 1810
Spinning wheel, heads	William H. Peabody.	Woodbury, Ct	July 30, 1811 Dec. 14, 1812
Spinning wheel, heads	Eli Church	Weedbury, Ct Homer, N. Y	Mar. 18, 1813
Spinning wheel, heads	David Loring	Canandaigua, N. Y.	Dec. 31, 1813
Spinning wheel, heads	Emory Russell David Lee	Long Meadow, Mass Guilford, Ct	April 18, 1814 May 6, 1816
Spinning wheel, heads	I. Mudge & M. Hatch	Sherburne, N. Y	April 19, 1819
Spinning wheel, heads, accelerat'g	Diana H. Tuttle	Williamson, N. Y	May 17, 1894
Spinning wheel, heads, linen	Brown Smith & Chas.		
Shinning wheel beads lines	Stewart	Trunton, N. J	Dec. 8, 1814 April 19, 1891
Spinning wheel, heads, linen	Jared S. Stewart Hiram F. Wheeler	Springfield, N. Y	Dec. 15, 1846
Spinning wheel, linen	Benjamin Simmons	Springfield, Va Paris, N. Y	July 20, 1990
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	PATENTINO.	riministron.	WHEN ISSUED.
Spinning wheel, small	Nathan Lewis	Canandaigua, N. Y.	Mar. 29, 1817
Spinning wheel, wool	Gilbert Brewster	Norwich, Ct	Feb. 27, 188
Spinning wicks		New York	Feb. 21, 163
pinning wool	John Griggs, jr	Ashford, Ct	Dec. 30, 1834
Spinning wool		11012014, 011111111	200. 00, 200.
white wood and the second	Rogers	Harpersfield, Ohio	June 15, 1826
Spinning wool	Benjamin Lapham	Queensbury, N. Y.	June 29, 1837
Spinning wool		Russelville, Ky	Nov. 10, 1829
Spinning wool	David S. Wooster	Sheldon, N. Y	Feb. 14, 1831
Spinning wool			2., 2002
Spinning wool*	Messenger	Lowell, Mass	Mar. 31, 1832
	M. Conradt	Fredericktown, Md.	Mar. 10, 1834
Spinning wool		Kingston, Pa	
Spinning wool	J. Withered	Baltimore, Md	
Spinning woolt	Isaac B. Hartwell	Northfield, Vt	
Spinning wool by continued rota-		,	.,
ry motion	Gilbert Brewster	Norwich, Ct	Mar. 13, 1824
Spinning wool and cotton	Peter Paddleford	Lyman, N. H	
Spinning wool and cotton	Jac. Sprinkel	Wythe, Va	Aug. 23, 1816
Spinning wool and cotton	Jac. Richardson	Scipio, N. Y	Oct. 16, 1816
Spinning wool and cotton	Wm. Brushnell and J.	Cospio, IV. I	10, 1010
aprilling woor and occount	Altoffer	Harrisburg, Va	Aug. 30, 1821
Spinning wool and cotton			
Spinning wool and cotton			001. 0, 1001
Spinning woor and committee	Farnham		Tune 98 1895
Spinning wool and cotton		Foxborough, Mass.	Dec. 7 1896
Spinning wool and cotton			
Spinning wool and cotton		Birmingham, Eng	
Spinning wool and cotton			
Spinning wool and cotton	David Newbrough		April 97 1839
Spinning wool and cotton by hand		Drowidence P I	Mar 16 1996
Spinning wool and cotton by hand	Nathaniel Harris	Fairfield so Ohio	Tan 91 1990
Spinning wool and cotton, & hemp		Greenland, N. H	Fab 96 1898
Spinning wool and cotton from the		·	1
Spinning wool, and drawing	William Humphreys		
Spinning wool, domestic	Lafford Totten		Nov. 13, 1824
Spinning, wool spinner, domestic		Jefferson Ohio	Jan. 27, 1841
Spinning wool and yarn	John Sharp		
Spinning woollen roving	Edgar M. Titcomb	Andover Mass	July 29, 1837
Spinning woollen slubbing	Charles Atwood		Mar. 10, 1830
Spools and bobbins	William Clegg	Norwich Ct	Feb. 24, 1830
Spools and bobbins	William Clegg Simeon Presbrey, jr	Canton Mass	July 26, 1832
Spools, frame	Elihu Robinson	Augusto Moss	Mar. 16, 1816
	Emin toomson	Augusta, Mass	Wai. 10, 1010
Stamping or painting on fabrics,	Spurkman & Kelsey	Now Voul N V	July 25, 1846
design for			
Straw bonnets, pressing	Preston Whiting Eleazer Smith	Tropenie, Mass	June 11, 1819
Straw bonnets, pressing	Simon Pettee	Forbonough Mac-	July 15, 1890
Straw boanets, pressing	Samuel Drings	Non York	
Straw or chip hats, pressing Straw and Leghorn bonnets, &c.,	Samuel Prince	New IOR	Aug. 31, 1808
pressing	Otis Plimpton	Foxborough, Mass .	Dec. 28, 1832
Straw, plait, cleaning.—See Class 4. Straw, plait, trimming & dressing.		Providence, R. I	April 96 1911
Straw, weaving, with silk or thread	Italy Italiani	rrimingry, Ottors	May 5, 1809
Straw, whitening.—See Class 4.	William Pond	Wrentham, Mass	Fab 90 1011
Straw, wove plait			Feb. 28, 1811
Stuffs, in which the fibres of vari-			A101 10 Euro A
ous materials are united with adhesive mixtures, machinery for the manufacture of.	1	in London	April 24, 1840
may assess discovered A. A.			
* Reissaed March 30, 1836.	† Amedated Peb. 20, 1830.	‡ Antedated Marc	h \$3, 18 46 .

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finalisation of distorbring."	PATHWENN.	RECORDINGS.	WHAN MINES.
Threads or cords, worsted or other,	Benjamin B. Tilt and		
dressing or finishing.	James Skinner	Roxbury, Mass	
Tenter bars, circular	Stephen R. Parkhurst		
Tenter bars, circular	Stephen R. Parkhurst		
Thread, packing	Reuben Landon	Hartford, Conn	
Thread, preventing from waste Thread, waste, reducing to cotton	John Golding	Dedham, Mass	
woolThread, waste, reducing to cotton		Hartford, Conn	
wool	William Gray	Hebron, Conn	
Throstle for spinning		Patterson, N. J	
for making	Hugh McCubbin	Petersburg, Va	
Twine, tarring and spooling Twisting, reeling, and doubling		Boston, Mass	· ·
machine. Twisting, self-supplying machine.	H. E. and J. Haight. Walter Hunt	New York New York	
Wadding, pelisse, improvement in the manufacture of	Darius Goff	Rehoboth, Mass	Jan. 15, 1840
	of J. S. Glover	Ipswich, Mass	June 27, 184
Weaver's harness	Kassimer Vogel	Lowell, Mass	Dec. 10, 184
chinery for tying	Peter Moulton	New Rochelle, N. Y.	Aug. 24, 184
Whipper, cotton	William Hopkins	Plainfield, Conn	
Whipper, cotton, and cleaning	Samuel P. Mason	Killingly, Conn	
Whipper, cotton, cylindrical grate		Scituate, R. I	
Whipper, cotton, oblique	Lucien Osgood	Abbington P. O., Ct.	Oct. 27, 183
Whipper, cotton, revolving	Elisha Baker	Warwick, R. I	June 4 189
Winding cotton	David Brown, jr	Warren, R. I	Feb. 5, 180
Winding quills	Levi Ruggles	Boston, Mass	Ang 16 181
Winding quills	Francis Jones	New York	May 23, 182
Winding slubbing from the card.	1 Tanoas ones: The	THE TOTAL STATE OF THE STATE OF	102uy 20, 102
conical spool	Charles Atwood	Middletown, Conn	Nov. 1, 183
Winding spooling cotton, roving.	William H. Elliot	Leicester, Mass	Dec. 28, 183
Winding, spooling, and weaving.	Eb. Stowell	Middlebury, Vt	Feb. 28, 181
Winding spools and bobbins	Walter Janes	Ashford, Conn	Aug. 20, 181
Winding spools and bobbins	Augustus Sherwood		
Winding spools and bobbins		Hudson, N. Y	Oct. 18, 181 June 29, 181
	Cal. Flag and O. Wright		
Winding spool yarn Winder, socket, bobbin	John Thorp and Silas	Boston, Mass Taunton, Mass	March 9, 181
Winding, spooling wool from the breaker carding machine	ShepperdZachariah Allen	Providence, R. I	Oct. 14, 181 Sept. 10, 183
Wool burring	Henry Concklin	Poughkeepsie, N. Y.	
Wool, burring and eleaning	Theodore Ely	New York	May 16, 184
Wool, cleaning burs from Wool, cleaning burs from, on the	Theodore Ely	Poughkeepsie, N. Y.	Sept. 17, 183
skin	Lewis S. Miller	Rochester, N. Y	Jan. 31, 183
Wool cleaning	Samuel Couillard, jr	Boston, Mass	Mar. 30, 188
Wool cleaning	Michael S. Simpson J. Wolcott and C. W.	Boston, Mass	July 7, 183
	_ Brown	Roxbury, Mass	Oct. 18, 183
Wool, cleaning burs from	Erastus Tracy	Poughkeepsie, N. Y.	Dec. 30, 183
and ginning cotton	Milton D. Whipple TheNewEnglandCom-	East Douglass, Mass.	Oct. 28, 184
	pany, ass'ee of Whit-		
	well, Bond, and Sea-		1
	well, Bond, and Seaver, assignees of Michael H. Simpson, as-	!	

^{*} Reissued June 16, 1696. July 6, 1839.

myentions or discovilings.	PATENTESS.	resourchites.	with sidely.
Wool, combing, &c., combing and			
preparing	Francis A. Calvert	Lowell, Mass	Oct. 9, 1841
Wool combing, machine for	Charles G. Sargent	Lowell, Mass	Oct. 7, 184
Wool, combing	Francis A. Calvert	New York, N. Y	Dec. 27, 1841
Wool, combing*	George E. Donisthorpe		Sept. 11, 1844
Woel, combing	Ezra Gould	Patterson, N.J	Oct. 9, 1844
Wool, composition to start the oil	John Goulding	Dodham, Mass	Aug. 24, 1827
Wool, sotton, &c., cleaning from			
burs.	Alanson Crane	Chelmeford, Mass	July 16, 1841
Wool and cotton, ginning, burring		Lowell, Mass	Nov. 25, 1841
Wool, cotton, &c., picking and	George C. Kellogg and		
opening.†	Phineas Gillett	New Hartford, Conn.	April 30, 1849
Wool, cotton, cleaning rollers	Samuel Sawyer	Boston, Mass	Mar. 30, 1833
Wool or flax, comber	William W. Calvert	Lowell, Mass	July 2, 1836
Wool or flax, to brush into teeth	George W. Lyman, as- signee of William W.		
	Calvert	Bosten, Mass	Sept. 18, 1835
Wool, hair,&c., forming web with-		ĺ	
out spinning.	Bishop	Norwalk, Conn	Oct. 20, 1836
Wool, manufacturing	John Goulding	Dedham, Mass	Dec. 15, 1896
Wool, manufacturing	John Goulding	Dedham, Mass	April 27, 1827
Wool, manufacturing	John Goulding	Dedham, Mass	July 10, 1827
Wool, manufacturing	John Goulding	Dedham, Mass	Feb. 16, 1829
Wool, manufacturing	John Goulding	Dedham, Mass	Feb. 16, 1839
Wool, manufacturing	John Goulding	Dedham, Mass	June 11, 1829
Wool, manufacturing	John Goulding	Dedham, Mass	July 21, 1829
Wool, picking, and separating burs		New York, N. Y	June 3, 1843
Wool, preparing for worsted	Joseph Banford	Philadelphia, Pa	Mar. 18, 1813 Oct. 1, 1839
Wool, washing, on the sheep Wringing dyes from cloth	Charles Harris William Nelson	Snowhill, Ohio Batavia, N. Y	Oct. 1, 1839 Nov. 13, 1838
Yarn, cotton, without the aid of		Datavia, 14. I	1101. 10, 10.00
twist	Erastus Wolcott	Newport, N. Y	Dec. 11, 1821
Yarn, drawing, and forming into		Tiempore, In. I	Doc. 11, 1031
readies	Robert Graves	Boston, Mass	Nov. 22, 1890
Yarn drawing, frame for regulating			
a man min m many many .ve 1 of manning	ford	East Killingly, Conn.	Nov. 12, 1846
Yarn, dressing, preparatory to			
weaving	Samuel Batchelder	Saco, Maine	June 22, 1833
Yarn doubling, twisting and reeling		Gap, Pa	July 20, 1846
Yarn, equalizing the strain upon	Robert Graves	Boston, Mass	Nov. 22, 1890
Yarn, preparing for weaving	H. P. Franklin and W.	,	
,[]	B. Windsor	Providence, R. I	Aug. 8, 1817
Yarn, rolls, forming on the shuttle,		•	
bobbin	John Thorpe	Providence, R. I	Nov. 20, 1819
Yarn, sizing, by steam	Hannibal Fletcher	Shelburne, Vt	July 8, 1843
Yarn, tarring	John Thursby	Rushwick, N. Y,	May 2, 1843
Yarn, washing and cleaning	Sands Olcott	Philadelphia, Pa	April 11, 1849
Yarn, woolien	William B. Walker	Hillsborough Bridge, N. H	July 1, 1835
_		47. 44	July 1, 1030
•		•	
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^{*} Eng. pat. Nov. 25, '43. † Antodated October 30, '30. ‡ Reissued Sept. 9, 43. | Reissued July 30, '38.

CLASS No. IV.

CHEMICAL PROCESSES,

Manufactures, and Compounds, including Medicine, Dying, Color-making, Distilling, Soap and Candle making, Mortars, Cements, &c.

LIST OF PATENTS.

CLASS IV.—CHEMICAL PROCESSES, Manufactures, and Compounds, including Medicine Dying, Color-making, Distilling, Soap and Candle making, Morters, Coments, &c.

INVENTIONS OR DISCOVERIES.	Patentees.	RESIDENCE.	WHEN ISSUED.
Asid managaria atanzia and alaia	Hanry Saybout & Tand		
Acid margaric, stearic, and oleic,	Henry Seybert & Lard-	Dhiladalahia Da	A 1C 1096
decomposed by caustic lime.	ner Vanuxem	Philadelphia, Pa	Aug. 16, 1830
Acid, mixing, for dying woollens.	Hugh Young	Rochester, N. Y	Nov. 19, 1833
Acid, mode of separating the oleic		D'1 D.	
from the stearic	James S. Gwynne	Pittsburg, Pa	Sept. 3, 1846
Acid, sulphuric, manufacturing	James Hargreaves	Patterson, N. J	Aug. 24, 1839
Acid, sulphurio	Benjamin Bell	Boston, Mass	Nov. 7, 1811
Acid, vegetable	Nath'l S. Allison and		
	Benjamin Kugler	Philadelphia, Pa	June 5, 1839
Ague and fever specific	Morris Cannon	New Orleans, La	Oct. 1, 1830
Alcohol, carbonated, substitute for		· ·	
lamp oil	Samuel Casey	Lebanon, Maine	Mar. 17, 1834
Alcohol, extracting from apples	Anson Wolcott	E. Bloomfield, N. Y.	Oct. 6, 1835
Alcohol, extracting by steam	A. and N. Wolcott	Bloomfield, N. Y	Mar. 19, 1827
Alcohol, or spirits, from grain	Isaiah Jennings	New York	June 13, 183
Alcohol, used in stiffening hats,		LIUW LUIRIIIIIII	- Luc 10, 100
extracted by the process of dis-	MITHER M. C.	Manthambanhand Da	T 00 1000
tillation	William McCay	Northumberland, Pa.	June 22, 1832
Alkali, extracting from ashes in the			
manufacture of potass.	Jacob Osborn	Elyria, Ohio	July 18, 1840
Alkali, extracting from marine salt			
and kelp	John Nazro	Massachusetts	Jan. 6, 1797
Alum, from lignite	Genet Troost	Philadelphia, Pa	Mar. 3, 1817
Alembic, vaporous	Charles Merot	Philadelphia, Pa	Nov. 5, 1818
Anodyne, and alterative syrup	Rezin Thompson	Rome, N. Y	Nov. 14, 1835
Anti-bilious, grand depurative gu-		,	
rider	John J. Giraud	Baltimore, Md	Sept. 9, 1817
Asiatic lenitive for pain	Ez. Aulder	New York	Oct. 26, 1818
		THEW TOLK	20, 1010
Bagasse, drying*	Wm. White, ass'ee of	Nort Orleans I a	A
Pallage (George Merrick	New Orleans, La	April 10, 1845
Balloon	Moses McFarland	Massachusetts	Oct. 28, 1799
Balsam lavender	Elizabeth Bartlette	New York	Jan. 29, 1833
Barilla, manufacturing from tobac-			
_ co stems	George Easterly	Richmond, Va	Feb. 5, 1810
Bark, evaporating the extract of	George W. Klein	Boston, Mass	Dec. 15, 1838
Bark, extracting	Samuel Downing	New York	June 12, 1801
Bark, extracting, essence of	Samuel Downing	New Jersey	April 19, 1802
Bark, extracting, from dying	Thomas Bedwell and	_	•
	Wm. Mitchell	Pennsylvania	June 7, 1803
Bark, extract of	Wm. G. Fessenden	Walpole, N. H	Oct. 20, 1812
Bark, hemlock, extract of, for tan-	,,		
ning	Thomas Rundlet	Bedford, N. H	Dec. 30, 1833
Bark, preparation	Thomas Benger	Pennsylvania	Jan. 25, 1804
Bark, preparation, quercitron	Nathan Harper	Frankfort, Pa	Oct. 30, 1810
Bark, preparation, quercitron	James Andrews	Philadelphia, Pa	July 15, 1810
Bark, preparation, quercitron	James Elliott	Philadelphia, Pa	Aug. 20, 1822
Bark.—See Tanning, Class 16.			
Beef, salted, mode of making and			
curing	Wm. A. Tomlinson		Dec. 24, 1830
Beer or ale, restoring sour or musty	Moses Granger	Lowville, N. Y	Jan. 11, 183
	Stephen Hinds		
Beer, composition for making	CARDINGS TESTINGS	INTOINMOND FOR THE	MINA TIL TOO

^{*}Antodated Sept. 10, 1844.

	 		
INVENTIONS OR DISCOVERIES.	PATENTES.	respence.	WHEN LAMPED.
Beer, making spruce	George Jones	Boston, Mass	Jan. 27, 1832
Beer, vegetable	Simeon Whiton	Hartford, Ct	Mar. 21, 1846
Bitters, jaundice	Jesse Wheaton	Massachusetts	June 17, 1801
Bitterings, from salt kettles, pro-			
cess of separating	David Dear	Salina, N. Y	Oct. 18, 1837
Blacking	P. H. Havill and D.	n 01.	T 04 1049
Disching Conleading	Curran	Roscoe, Ohio	June 24, 1843
Blacking, for leather	Samuel Adams	Cleveland, Ohio	May 30, 1842
Bleaching	George Keintzle Moses Pierce	Montgomery co., Pa	Oct. 8, 1818 Nov. 8, 1845
Bleaching apparatus Bleaching bay-berry wax	Benjamin Gomperts	Norwich, Ct New York	Feb. 14, 1832
Bleaching bees wax, yellow	John N. Shultz	New York	April 30, 1832
Bleaching cloth, and cleaning	Calvin H. Farnham	Norwich, Ct	Aug. 15, 1835
Bleaching cotton by steam	A. Milne and Daniel		
g	S. Deane	Clinton, N. Y	July 14, 1813
Bleaching cotton and linen yarn	Jonas Kendall	Leominster, Mass	Aug. 22, 1817
Bleaching cotton and linen	John B. Green	Portsmouth, N. H	May 29, 1832
Bleaching cotton and linen	Lemuel W. Wright	Now in England	Mar. 3, 1838
Bleaching hemp and flax, unrotted		New York	Aug. 27, 1822
Bleaching paper*	J. G. & J. H. Kendall		July 2, 1846
Blister plaster	Elisha Perkins	Baltimore, Md	Jan. 15, 1830
Blood, equalizing the	S. R. Terrell	Burton, Miss	Feb. 5, 1836
Blood, purifying, for clarifying	Thomas Hamist	Dhiladalahia Da	Non 10 1922
Plant pines budge average	Thomas Hewitt	Philadelphia, Pa	Nov. 19, 1833
Blow pipes, hydro-oxygen Boiler, stone, for chemical purposes	Robert Hare, M. D Abm. H. Quincy	Roston Mose	July 5, 1845 June 13, 1812
Boiling liquids of all kinds	Richard M. Beach		April 7, 1831
Brandy, imitating, from domestic		- I unamin, 211 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
materials	Henry Moore	Aurora, N. Y	July 2, 1814
Brandy, manufacturing all kinds	,		
of grain	Chris. H. Hutter	Pennsylvania	Feb. 11, 1803
Brewing	Arthur Redmond	Nashville, Tenn	May 20, 1819
Brewing apparatus	R. L. Lloyd and A.		
	Bartenheimer	Philadelphia, Pa	Jan. 27, 1824
Brewing beer	Thomas Behan	Norwich, N. Y	Aug. 1, 1838
Brewing from Indian corn	Alexander Anderson.	Pennsylvania	Jan. 26, 1801 June 13, 1815
Brewing spruce beer	William Dezeau Harvey Hackley	Philadelphia, Pa New York	April 21, 1820
Camphor, refining	Henry Mead	New Haven, Ct	Feb. 12, 1810
Camphor, refining	Job Green	Charlestown, Mass.	April 27, 1812
Candles	Joseph S. Sampson	Boston, Mass	Aug. 6, 1790
Candles	Richard Robotham	New York	June 2, 1794
Candles	Joseph S. Sampson	Massachusetts	June 26, 1797
Candles	Francis Fuller	New York	Sept. 29, 1821
Candles	James M. Yard	Trenton, N. J	Dec. 4, 1821
Candles, composition for	Philip Farrell	New York	Dec. 16, 1833
Candles, dipping	Samuel Blydenburg		Mar. 22, 1798
Candles, dipping	William Miller		Jan. 6, 1809
Candles, dipping	Samuel Stansbury		Jan. 6, 1809 Mar. 20, 1821
Candles, dipping	John Aborn William Day	Burlington, N. J	
Candles, dipping	Thomas M. Scott		Mar. 11, 1826 April 1, 1830
Candles, dipping machine	John Aborn		
Candles, dipping and moulding	James Zwisler		July 1, 1814
Candles, manufacture of, from cas-			
tor oil	Ebenezer Marsh	Alton, Ill	April 30, 1842
Candles, moulds for, manufac'e of		New York, N. Y	Feb. 20, 1846
Candles, moulding	James Gamble & Jos.	a	D 00 -0
Condian marks	S. Hill	Cincinnati, Ohio	
Candles, moulds	Thomas Hewitt, jr	Philadelphia, Pa	
Candles, moulds	Thomas Hewitt, jr	Philadelphia, Pa	June 13, 1831
Candles, moulds	T. J. Dyre and Antho- ny Richmond	New Bedford, Mass.	July 20 1831
Candles, moulds	Jefferson Dunlap	New Holland Pa	Mar. 8. 1836
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^{&#}x27; * Antodated Jan. 2, 1846.

Candles, moulding. Candles, well and the mould wax. Candles, well and the Morey. Candles, well and wax. Candles, well and way. Candles, well and way. Candles, well and way. Candles, well and way. Candles, well and orey. Candles, well and orey. William Morey. Worcester, Mass. New York. Cot. 16, 183. Candles, well and orey. Washington, D. C. April 11, 183. Candles, well and orey. Washington, D. C. April 11, 183. Candles, well and orey. Washington, D. C. Canders, brever. Candles, well and orey. Washington, D. C. Candles, well and orey	inventions or discovering.	PATENTER.	residence.	WHEN ISSUED.
Candles, moulding. Candles, moulding. Despeh H. Tuck. Joseph H. Tuck.				
Candles, moulding. sperm William W. Swain New Bedford, Mass. July 11, 1837 Candles, separating stearin from elain. John H. Smith. James Zevialer. Beldimore, Md. April 2, 1818 Candle wick.—See Class 3. William M. Swain. Worcester, Mass. Aug. 15, 1838 Cane juice, clarifying. Cane juice, clarifying. Cane juice, clarifying. Cane juice, clarifying. Canuchouc, application to cloths. E. M. Chaffee. Roxburry, Mass. Aug. 11, 1837 Caoutchouc, dissolving.—Patrick Mackie. New York. Oct. 16, 1832 Caoutchouc, dissolving.—Patrick Mackie. New York. Oct. 16, 1832 Caoutchouc, dissolving.—Patrick Mackie. New York City. Mar. 23, 1834 Caoutchouc, girseding and drying upon cloths.—Caoutchouc, spreading and drying upon cloths.—Caoutchouc, manufacturing various articles, preparing with sulphur. Calcareous earths, concentration. Calcanous earths, concentration. Calcanous cerths, concentration. Calcanous cerths, concentration. Calcanous, chemical. See Cass 20. N. Haywood. See Comment, chemical. See Comment, chemical. See Cement, for cisterms.—Cement, for cisterms.—Cement, for cisterms.—Cement, for cisterms.—Cement, for cisterms.—Cement, for cisterms.—Cement, for covering buildings.—Cement, hydraulic.—Cement, hydraulic.—Cement, hydraulic.—Cement, hydraulic.—Cement, hydraulic.—Cement, hydraulic.—Cement, for corls of souses.—Cement, for rords of houses.—Cement, for rords of houses	Candles, moulding			
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elain	Candles, moulding, sperm	William W. Swain	New Bedford, Mass.	Jan. 14, 1820
Candle wick, dipping and cutting. Cane juice, clarifying. Wm. J. McIntosh. Caoutchouc, appleaution to cloths. Caoutchouc, dissolving. Caoutchouc, dissolving. Caoutchouc, dissolving. Caoutchouc, dissolving. Caoutchouc, dissolving. Caoutchouc, fluid, to render articles water proof. Caoutchouc, manufacturing balls of of. Caoutchouc, manufacturing various articles, preparing with sulphur. Calcaired, preparing manufactures of and rendering impervious to water. Cement, proof. Cemen		T 1 TT G ::1	D lalam N. W	A
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Caoutchouc, dissolving			Dowburn Mass	Mar. 1, 1020
Caoutchouc, divesting of its adhesis ve properties			New York	Aug. 31, 1830
Caoutchouc, divesting of its adhesise properties				
sive properties		I atrick Mackie	Tiew Tolk dity	14101. 20, 1000
Caoutchouc, fluid, to render articles water proof. Caoutchouc, spreading and drying upon cloths		Charles Goodwear	New York	Tune 17 1837
Caoutchoue, spreading and drying upon cloths		Charles Goodyear	1	June 11, 1001
Caoutchouc, spreading and drying upon cloths		George H. Richards.	Washington, D. C.	April 11, 1831
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Caoutchouc, manufacturing balls of Arnold, ass ees of E. M. Chaffee	upon cloths	William Atkinson	New York	Oct. 6, 1835
Cauchcouc, manufacturing various articles, preparing with sulphur. Calcareous earths, concentration. Catholicon, chemical. Cament, fare-proof. Cement, for blocks, pillars. Cement, for cisterns. Cement, for cisterns. Cement, for costerns. Cement, for cordins.—See Class 22. Cement, compound, resinous. Cement, for covering buildings. Cement, for covering buildings. Cement, for dand water. Cement, hydraulic. Cements, making. Cements, making. Cements, making. Cement, for roofs of houses. Cement, for roofs of houses. Cement, for coofs of houses. Cement, hydrorolic out and cament, hydracy of the compound of the			Charlestown, Mass	, 2000
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phur. Calcareous earths, concentration. Calcareous earths, concentration. Calcareous earths, concentration. Calcareous earths, concentration. Catholicon, chemical. Cement, for cineman, artificial stone, &c., forming. Cement, bitusninous. Cement, for blocks, pillars. Cement, for cisterns. Cement, for cisterns. Cement, for coffins.—See Class 22 Cement, compound, resinous. Cement, for covering buildings. Cement, for covering buildings. Cement, for covering buildings. Cement, for covering buildings. Cement, fire proof. Cement, fire proof. Cement, fire proof, and water. Cement, fire proof, and water. Cement, thardening manufactures of, and rendering impervious to water. Cement, hydraulic. Cement, marble, imitation of. Cements, making. Cements, for roofs of houses. Cement, for roofs of houses. Cement, for coofs of houses. Cement, threefold. **Reissued Des. 3, 1834. **Pales of Banglas puters Oct. 6, 1846. **Pales of B				Feb. 24, 1839
Catholicon, chemical. Isaac W. Smith. Lockport, N. Y. May 28, 183 Ceiling, fire-proof. Senjamin J. Harris John Danforth Greenwood and Richard Wynn Keene. Cyprien Poullalier Cement, for cisterns. Carson and Robert Carson and Robert Cement, for cisterns. Cement, for coffins.—See Class 22 Cement, compound, resinous Cement, for covering buildings Cement, for covering buildings Cement, for covering buildings Cement, for covering buildings Cement, fire proof, and water Cement, fire proof, and water Cement, hydraulic Cement	phur.		,	
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Cement, fire proof		Daniel A. Balcom	Northampton, Mass	Aug. 1, 1834
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Cement, hydraulic	Cement, hydraulic			4 07 100
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Cements, marble, imitation of			Albany N V	Oct 6 193
Cements, making			New York	Nov 13 189
Cements, mastic	Cements, making	William H. Smith		
Cements & pigments, water proof † Cements for preparing masts; Alfred Jeffrey Great Britain April 15, 184 Cement, for roofs of houses Charles Morneweck Charles Morneweck Baltimore, Md Massachusetts Nov. 16, 180 Cement, for roofs of houses Charles Clinton Baltimore, Md Mar. 13, 181 Mem York July 13, 183 Sept. 9, 185 Page of English patent April 6, 1843 † Date of English patent April 6, 1843 † Date of English patent April 6, 1843	Cements, mastic	William H. Chase	. Pensacola. Florida.	April 16, 184
Cements for preparing mastst Alfred Jeffrey Great Britain April 15, 18- Cement, for roofs of houses Charles Morneweck. Baltimore, Md 13, 18t Cement, for roofs of houses Charles Clinton New York July 13, 18t Cement, threefold Ezra Godfrey New York Sept. 9, 18t *Reissued Dec. 3, 1834. † Date of English patent Oct. 8, 1869.				
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Cement, for roofs of houses Charles Morneweck. Baltimore, Md Mar. 13, 186 Cement, for roofs of houses Charles Clinton New York July 13, 185 Sept. 9, 185 ** Reissued Dec. 3, 1834. † Date of English patent Oct. 8, 1849. † Date of English patent April 6, 1843.	Cement, for roofs of houses	. David Stodder	. Massachusetts	. Nov. 16, 180
*Reissued Dec. 3, 1834. † Date of English patent Oct. 8, 1949. † Date of English patent April 6, 1949.	Cement, for roofs of houses	. Charles Morneweck.	. Raltimore, Md	Mer. 13, 180
*Reissued Dec. 3, 1834. † Date of English patent Oct. 8, 1949. † Date of English patent April 6, 1949.	Cement, for roofs of houses	. Charles Clinton	. New York	. July 13, 182
	Cement, threefold	. Ezra Godfrey	. New York	. Sept. 9, 182
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myantions or discoveries.	PATENTERS.	remodifes.	WHEN 100423.
Cement, for walls, ceilings, and	•		
floors	A. Scott	Newburg, N. C	Aug. 15, 1814
Cement, for water	John Grant	Saratoga, N. Y	Nov. 11, 1817
Cement, water proof	Canvas White	Whitestown, N. Y.	Feb. 1, 1820
Cement, water proof	Canvas White	Whitestown, N. Y.	Feb. 17, 1821
Cement, water proof	David M. Randolph	Richmond, Va	Sept. 26, 1821
Cement, water	Simeon Guilford	Lebanen, Pa	Jan. 11, 1826
Coment, water	Simeon Guilford	Washington, D. C.	Jan. 16, 1827
Cement, water proof	William Y. Singleton.	Springheid, III	Dec. 26, 1845
Cement, water, paint, or varnish'.	John T. Howe	New York	Jan. 31, 1829
Cement, wood, brick, stone, or iron	D:-11 307-1-1	Danier Mari	T 5 1000
work	Richard Walsh	Boston, Mass	
Charcoal manufacturing	A. Kurtz	Philadelphia, Pa	June 28, 1816
Charring wood for procuring		DETERMINE DE	Tam 17 1007
gasses	Samuel J. Jones	Philadelphia, Pa	Jan. 17, 1827
Chlorine, cosmetic	David West	Hudson, N. Y	Aug. 26, 1818
Chrome yellow, making	Richard A. Tilghman.	Philadelphia, Pa	Jan. 11, 1833
Chrystallizing tin	George F. Valentine	Albany, N. Y	
Cigars, self-igniting	John March	New York	April 16, 1834
Coloring and hardening wood	Charles F. Spicker	New York	
Colors for coaches	William Hollenstein.	Pennsylvania	
Color, for painting	Lawrence Allurne	Pennsylvania	
Color, for painting	Fre. Guy	Dhiladalahia Da	
Color, permanent, for calicoes	Aug. Boulia	Philadelphia, Pa	Dec. 24, 1814
Color, preparation, of green	Baron A. De Carren-	New York	0.4 10 1907
Colon managerian with lime	deffez		Oct. 12, 1807
Color, preparation, with lime	Jonathan Nichols, jr Samuel De Riemer	Broad Albin, N. Y.	April 12, 1815
Color, substitute for indigo	Tnomas Bedwell	Poughkeepsie, N. Y.	May 15, 1809
Color, yellow	I HOHIAS Dea Well	Pennsylvania	April 20, 1796
Coloring hats.—See Class 3.	Hanny Stavens	Great Britain Englid	Oct. 28, 1837
Coloring matter, manufacture of Composition for aqueduct pipes	Gideon Myers		Mar. 28, 1844
Commonition for avletrees	Acron Nach	,	
Composition for bearings of ma- chinery.	I S Hill and	Roston)	Liec. 17, 1814
abinary	Ioseph Divon	Taunton Mass	Jan. 31, 1845
Composition for bleaching leather	Joseph Hayward	Cleveland, Ohio	May 9, 1846
Composition for burning in lamps		New York, N. Y	Dec. 31, 1839
Composition, coating metallic sur-		110# 1012, 111 1111	200. 01, 1000
faces to prevent oxidation	Arthur Wall	Shadwell, England	June 22, 1842
Composition, for copy writing and		Cities work, And States of	vanc 30, 1010
drawing books	Richard Wall	Philadelphia, Pa	April 28, 1819
Composition, covering the bottom		z macopita, z a	11p11 10, 1020
of vessels.	Samuel Williams	New York, N. Y	Mar. 18, 1842
Composition, covering houses	Abijah Rogers	Hudson, N. Y	
Composition, cure for cancers	Elias Willard	Albany, N. Y	Oct. 8, 1810
Composition for dressing leather,		, , ,	.,
to render water-proof.	Henry Miller	Rowan county, N.C.	Jan. 24, 1843
Composition, for dyeing the hair.	Auguste Grandjean	New York	Feb. 28, 1844
Composition, for flooring houses.	Richard Robotham	Vermont	
Composition, for flooring houses.	Louis De Niroth	Baltimore, Md	
Composition for glazing	Thomas and Ephraim	•	,
•	Parker	Orangeville, Pa	Feb. 20, 1844
Composition for the hair	James Mackay	Great Britain	April 6, 1842
Composition for making brick	Nathaniel J. Wyeth	Cambridge, Mass	Mar. 28, 1844
Composition for making fringe and		ı	
tassel moulds	Charles Branwhite	New York, N. Y	Jan. 23, 1846
Composition, for making hats	Frederick Messer	Guildhall, Conn	Jan. 23, 1812
Composition, of marble, granite	Louis Matthey	Brooklyn, N. Y	
Composition, matter, for fire brick		Bennington, Vt	Sept. 22, 1837
Composition, for medical purposes		Norfolk, Va	Aug. 17, 1835
Composition, mending china		Weston, Mass	June 10, 1811
Composition, pencils		Dedham, Mass	April 26, 1819
Composition, pencils, black lead for	Charles Usgood	Salem, Mass	Feb. 26, 1814
Composition, pencils, points	Guy C. Baldwin	Ticonderoga, N. Y.	Dec. 2, 1835

^{*} Reissued April 21, 1838.

significates or Discovering.	PATEMPERO,	RESIDENCE.	W40000 M0423.
Composition, pharmaceutic	John C. Bay	Mount Pleasant, O	Jan. 26, 1895.
Composition, plaster, or fire proof cement. Composition, preparation for the	Wm. Rates and Den- nis Dolan	Manchester, G. B	Mar. 14, 1846
hair	Vair Clirehugh T. P. Merriam	New York, N. Y New Bedford, Mass.	April 11, 1842 Nov. 4, 1842
Composition, preserving shingles.	Cyrus Constant Foster Henshaw	New York Brookfield, Mass	Feb. 1, 1800 Jan. 16, 1834
Composition, to prevent absorp- tion of animal and fish oils Composition, preserving ropes and	Nathan Hathaway	Fairbaven, Mass	May 22, 1835
cordage Composition, protecting metallic	Amos Sailsbury	Troy, N. Y	Nov. 1, 1830
sheathing of vessels	David Ritter	New Bedford, Mass. New Haven, Conn	Aug. 8, 1837 Mar. 9, 1822
from cloth	Solomon Guess	Boston, Mass	Aug. 26, 1845
ter proof	Nathaniel Hatch Charles F. Miller	Eastport, Maine Baltimore, Md	Mar. 23, 1842 Aug. 28, 1840
Composition, for scurvey Composition, for softening cast or	James U. Armour Abel Scott and Alonzo	Fredericktown, Md.	Sept. 28, 1827
crude iron. Composition, for stiffening hats Composition, for stiffening hats	Selden	Winchester, N. H Chelmsford, Mass Gardiner, Maine	Nov. 8, 1814 Nov. 3, 1831 Jan. 19, 1831
Composition, substitute for jostic.			
Composition, supplying lamps Composition, for taking off the		Bangor, Maine	
glaze of mill stones	A. B. Allen	St. Clairsville, Ohio.	June 10, 1813 May 10, 1844 July 29, 1829
Composition, for vessels' bottoms Composition, for vessels' bottoms	Jonathan Pratt William Russell, jr	Middletown, Conn New Bedford, Mass.	Jan. 14, 1809 Nov. 8, 1819
Composition, for vessels' bottoms Composition, water and fire proof for roofs		New Bedford, Mass. Pittsburg, Pa	Jan. 29, 1820 April 25, 1828
Composition, water proof, for boots Composition, water proof, for lea-	Patrick G. Nagle	Philadelphia, Pa	Feb. 10, 1837
ther Composition, water proof, for roofs Composition, water proof, for wool-		New York Troy, N. Y	
len cloths	James P. Wightman	Boston, Mass	Oct. 21, 1806
Composition, water-proof Compound explosive power to pro-	William J. Roome Charles Lyon	New York New York, N. Y	
pel machinery	Henry Rogers Lyman Cooke	New York	June 29, 1833 Mar. 26, 1811
Condenser, and heater, for manufacturing spirituous liquor Condenser, for stills	Thomas Shurley	N. Madison c.h., Va. Painesville, Ohio	May 26, 1834
Condensing box for wooden still	Alexander Anderson .		Mar. 27, 1812 Oct. 27, 1813
Condensing tub, (improvement on Anderson's)	Henry Witmer		
Confectionary, applying syrup by steam.	Robert L. Stuart and Alex'r Stuart	New York	Mar. 7, 1833
Cansumption, &c., curing, Capper, acetate of		New York	Feb. 4, 1813

INTENTIONS OR DISCOVERING.	PATENTES.	rendence.	WHEN DOORD.
Cordial, anti-bilious	Simon Lazarus	Virginia	Dec. 21, 1809
Cordial, bilious	Samuel Chamberlain .	Massachusetts	Dec. 31, 1804
Cordial, gin	Antoine Boucherie	Philadelphia, Pa	Jan. 31, 1809
Cotton seed, for food, preparing	Daniel Gillett	Springfield, Mass	Sept. 15, 1819
Cough drops	Daniel E. Smith		June 30, 1838
Cream of tartar, carbonated, liquid	Sophia Usher	New York	Sept. 11, 1819
Dead bodies, preserving.—See Class	22.		•
Dentrifice, vegetable	Elijah H. Reid	Clarksville, Ga	Mar. 1, 1834
Distilling	Aaron Putnam	Medford, Mass	Jan. 29, 1791
Distilling	Nathan Read	Salem, Mass	Aug. 26, 1791
Distilling	Jos. Simpson	Richmond, Va	Mar. 4, 1794
Distilling	Eli Barnum and Benja- min Brooks	Nam Maulhamal Mana	Tl. 19 1000
Distilling	John Diamond	NewMarlboro',Mass	Dec 98 1909
Distilling	Michael Garber, sen.	Philadelphia, Pa Staunton, Va	
Distilling	Jac. Miller	Lancaster co., Pa	
Distilling	Andrew Dunlop	Boston, Mass	
Distilling	John J. Giraud	Baltimore, Md	
Distilling	Omri Carrier	Enfield, Conn	
Distilling	John Bates	Hartford, Conn	
Distilling	John W. Alber	Pennsborough, Pa	
Distilling	Wm. M. B. Wollias &	. .	•
	Hiram P. Barlow	Oneida county, N.Y.	
Distilling	Naphtali Hart	Easton, Pa	Oct. 29, 1814
Distilling	William Richardson	Kingston, N. Y	June 15, 1816
Distilling	Ezra Talmage	Lancaster, Ky	July 8, 1816
Distilling	Pierce Woods		Sept. 29, 1818
Distilling	James Case	New York:	Mar. 18, 1819
Distilling	David Cutler		
Distilling	Robert Blaikee Philip Griemer		April 27, 1821 April 17, 1822
Distilling	Fred. S. Cozzens		July 27, 1822
Distilling	Malcolm McDonald	Fayette co., Pa	Feb. 19, 1823
Distilling	J. Carpenter & J. Roe.		Jan. 29, 1824
Distilling	J. M. Aiken	Philadelphia, Pa	Aug. 30, 1827
Distilling	Abraham Whitson	Staunton, Va	Sept. 28, 1825
Distilling		Braintree, N. Y	April 15, 1826
Distilling		Surrey co., Va	Oct. 30, 1827
Distilling	James Luak	Butler co., Ohio	Dec. 22, 1827
		Cabin Point, Va	Feb. 4, 1828
Distilling			July 30, 1898
Distilling		Floyd, Ind Southport, N. Y	Dec. 27, 1828
Distilling	William Cooke Charles F. Fisher	York, Pa	Dec. 7, 1829 April 24, 1830
Distilling	Thomas Gallaher	Liverpool, Pa	Dec. 14, 1830
Distilling*	John Cairou	New York	Jan. 10, 1831
Distilling	James K. Jencks	Sackett's Har. N. Y.	
Distilling			Sept. 28, 1831
Distilling	Jacob Miller	Lancaster, Pa	
Distilling			
Distilling		Muncey, Pa	June 25, 1836
Distilling			July 1, 1836
Distilling alcohol	Lemuel J. Kilburn and		
5 1	John Biddis	New York	June 4, 1803
Distilling alcoholt	John Wright	New York	
Distilling alcohol	John T. Heard		Sept. 9, 1843
Distilling all kinds of liquors	Norman & A. Walcott		Dec. 8, 1896
Distilling alcohol from whiskey			Aug. 28, 1841
Distilling apparatus Distilling apparatus	Abm. Hiestand Abm. Weaver		
Distilling apparatus			
Distilling apparatus			Mar. 17. 1810
Distilling apparatus			June 21. 1810
Distilling apparatus		Washington, D. C.	April 18, 1811

^{*} Reissued Aug. 30, 1831

Reisound Feb. 20, 1836.



INVENTIONS OR DISCOVERIES.	PATENTEES.	REMEDENCE.	WHEN MOVED.
Distilling apparatus	Jac. Sherer and Abm		
Distilling apparatus	Lewis Lecesne	Lancaster, Pa Belleville, N. J	
Distilling apparatus	Isaac Hoffman	Shawangunk, N. Y.	
Distilling apparatus	Naman Goodsell	Paris, N. Y	June 13, 1816
Distilling apparatus	Amos Blood	Boston, Mass	July 16, 1816
Distilling apparatus	Henry Field Fred. Kalisky	Camillus, N. Y Philadelphia, Pa	
Distilling apparatus	Henry F. Fisher		Sept. 12, 1821
Distilling apparatus	Uriah Swetland	Kingston, Pa	Nov. 18, 1822
Distilling apparatus Distilling apparatus	John C. Douglass Charles Otis	Troy, N. Y	Nov. 26, 1825 Feb. 16, 1831
Distilling apparatus	Simeon De Witt		Jan. 30, 1833
Distilling apparatus	Joseph T. Dwyer		Nov. 19, 1833
Distilling apparatus Distilling apparatus for spirits of	Joseph T. Dwyer	Nashville, Tenn	Oct. 14, 1834
turpentine	Isaiah Jennings	New York	Aug. 27, 1835
Distilling, art of	Samuel Oliver		Aug. 4, 1841
Distilling boiling, method of, ap-	Paniamin Paulastan :-	Dringston N T	M 07 1905
Distilling boiler, double	Benjamin Eggleston, jr Enos Gunn	New Haven, Conn	May 27, 1805 Dec. 19, 1808
Distilling boiler, and rectifying still	William Eaton	Baltimore, Md	Oct. 29, 1810
Distilling boiler, for steam still	William Thornton		Oct. 28, 1803
Distilling and boiling liquors Distilling in cast iron stills	John Morris Jos. Coppinger	New Haven, Ct	Mar. 13, 1813 Nov. 21, 1809
Distilling cold	A. V. H. Webb		May 14, 1836
Distilling, cooling the mash used in	4 5. 357		
the process of	Allen D. Ward	Minerva, Ky	Nov. 7, 1840
Distilling, or compound distillation Distilling condenser	Fitch Hall	New York Pennsylvania	April 17, 1797 Jan. 26, 1801
Distilling cordials	Lewis C. and Philip		
Distilling, cylindrical heater	Bodman	Baltimore, Md	Sept. 30, 1825
	Pease	East Windsor, Ct	July 12, 1813
Distilling, and evaporation	Alexander Matthews .	Island Cr'k town'p,O Pennsylvania	
Distilling, and evaporation Distilling, and generating steam	Benjamin Henfrey Enos Brown	Oneida co., N. Y	Mar. 2, 1801 Jan. 23, 1815
Distilling, from grain	Simeon Shirtleff	Oneida co., N. Y	July 5, 1814
Distilling, from grain, by steam	David Dewey	Sullivan, N. Y	July 5, 1814
Distilling, heating liquor Distilling machinery	Thomas Belden Daniel Jackson	Hartford, Conn Peru, N. Y	Aug. 18, 1813 Dec. 28, 1824
Distilling maise	Anthony Doolittle	Ann Arbour, M. T.	Nov. 10, 1829
Distilling mash, cooling for	Thomas Whitemell	Scotland Neck, N.C.	Sept. 2, 1815
Distilling oil, essential and spirits. Distilling, rectifying	David Jewett John Whips	Pittsfield, Mass Jefferson co., Ky	Jan. 24, 1811
Distilling salt water.—See Cabooses,	Class 5.	Jenesaon co., ity	April 22, 1816
Distilling spirits	Daniel Ilsley	Massachusetts	May 14, 1803
Distilling spirits	Jacob Hugus	Hempfield t'wn'p, Pa	May 17, 1828 July 6, 1809
Distilling spirits from corn stalks. Distilling spirits from corn stalks.	Burgess Allison John Saunders	Philadelphia, Pa Schenectady, N. Y.	
Distilling spirits at one operation.	Jona. Shaw	Palmer, Mass	Nov. 13, 1811
Distilling spirits, still slops	David White	Fredonia, N. Y	June 17, 1828
Distilling, by steam	Sam. Brown, Ed. West, and Thomas West.		July 8, 1803
Distilling, by steam	John M. Bennett	Middletown, Conn	May 1, 1810
Distilling, by steam	Hez. Carry	Brooklyn, N. Y	May 1, 1810 Feb. 16, 1816
Distilling, by steam	Richard Wilcox Elias Gielhanson	New York	April 20, 1820
Distilling, by steam Distilling, by steam	William Avery	Halifax towns'p, Pa. Pompey, N. Y	Jan. 14, 1823 May 13, 1825
Distilling, by steam	Benjamin Barr	Strasburg t'wn'p, Pa.	April 5, 1828
Distilling, by steam	William Berkley	Lebanon, Ky	May 20, 1830
Distilling, by steam, still	Alexander Anderson . John H. Morton, T.	Pennsylvania	Sept. 2, 1794
		Lexington, Ky	April 28, 1816

INVENTIONS OR DISCOVERIES.	PATENTERS.	RESUDENCE.	when inter-
Distilling still for	Taba Pinasia		No. 05 180
Distilling, still for	John Kincaid	Pennsylvania	Nov. 25, 1394 Oct. 28, 1801
Distilling, still for	William Paine	Pennsylvania Pennsylvania	
Distilling, still for	John Staples	Virginia	
Distilling, still for	John Moffit	New York	
Distilling, still for	Lewis Geauly	Maryland	
Distilling, still for	William Wighton		
Distilling, still for	Stephen Steward	Walpole, N. H	June 28, 180
Distilling, still for	Edward Richardson	Fredericktown	Oct. 3, 1807
Distilling, still for	William Thornton	Washington, D. C	
Distilling, still for		Lancaster, Pa	
Distilling, still for	Hiram Whitcomb	Cornwall, Ct	
Distilling, still for	John J. Giraud	Baltimore, Md	
Distilling, still for	Charles F. Fisher		
Distilling, still for	Ezra Talmage	Richmond, Va	April 9, 1814
Distilling, still for	Robert Gillispie	Seneca, N. Y	Jan. 31, 1815
Distilling, still for	Jos. White		
Distilling, still for	Montgomery Stevens.	New York	June 17, 1816
Distilling, still for	B. J. Kellenback		
Distilling, still for	Edmund Capen	Boston, Mass	Jan. 17, 1827
Distilling, still for	Malcolm McGregor		June 15, 1827
Distilling, still for		Lampeter town'p, Pa	Dec. 24, 1833
Distilling, still for			
Distilling, still for, or boiler for	Leonard Beaty	New York	Jan. 19, 1894
Distilling, still for, and boiler for.		Richmond, Va	
Distilling, still, boiler, and worm.	Thomas Weston		Feb. 13, 1815
Distilling, still, boiler, and setting:			7 24 1000
Distilling still condenses	ments	Clemmonsville, N.C.	
Distilling, still, condenser	Thomas O. Conner	New York	
Distilling, still, condensing tub Distilling, still.—See Cooking, Cla	James Wheatley	Fauquier co., Va	140v. 13, 1013
Distilling, still, copper.	John Wright & David		
Distance, san, copport	Polley	New York	April 4, 1833
Distilling, still double, perpetual	John J. Giraud		
Distilling, still, and evaporator	Rob. Gillespie		
Distilling, still, and furnace, setting			Aug. 31, 1813
Distilling, still heads	Edw. Richardson		Dec. 16, 1803
Distilling, still heads, quilted cloth-			,
ing for copper	Charles Jenks	E. Windsor, Ct	April 25, 1812
Distilling, still, and large kettles,			
setting	Israel Wood	Massachusetts	Feb. 21, 1804
Distilling, still, perpetual	Simeon Emery	Philadelphia, Pa	April 9, 1833
Distilling, still, perpetual proof	B. J. Kellenback	Philadelphia, Pa	Aug. 6, 1821
Distilling, still, pipes of tin plate,			-
lead, &c	Thomas Ewbank	New York	May 0, 1823
Distilling, still, and rotative steam	a., , , ,		
engine	Stedman Adams	Hartford, Ct	Nov. 21, 1808
Distilling, still, steam	Samuel Bacon	Lanesborough, Mass	
Distilling, still, steam	James G. Foley Jac. Decker	Harrisburg, Pa	Feb. 23, 1826
Distilling, still, steam and boilers.	Dishard Carla	Green, N. Y	Sept. 2, 1811
Distilling, still, steam & condenser	Richard Sealy	Newark, N. J	July 25, 1811
Distilling, still, steam & condenser	Benjamin Hall	New Haven, Ct	May 13, 1814
Distilling, still, steam, perpetual	John J. Giraud	Daltimore, Mid	May 15, 1811
Distilling, still, steam, perpetual Distilling, still, steam, perpetual,	John J. Giraud	Datamore, Mu	Mar. 22, 1014
and water boiler	Philo M. Hackley	Herkimer co., N. Y.	Tan 11 1911
Distilling, still, steam or stove	John Stone, jr	Worthington, Mass.	Dec 2 1914
Distilling, still, steam and water	None, J	or annig ton, mass.	Dec. 0, 1014
boiler	Phares Bernard	Whitestown, N. Y	Nov 17 1910
Distilling, still, steam and water	Pornara	TT MANAGEMENT, IT. I	2101. 11, 1010
boiler	Phares Bernard	Whitestown, N. Y	Tan 16 1911
Distilling, still, steam and water	Borden Wilbor & Tim	marone will, att. I	20, 1011
boiler.	Soper	Washington co., N.Y	Feb. 4, 1811
1			
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EMVENTIONS OR DISCOVERIES.	PATRITRES.	ringdence.	ween issued.
Distilling, still, steam and water	Tim Soner in and C		•
boiler.	Reynolds	Hartford, Ct	Dec. 2, 1813
Distilling, still, steam and water			
boiler	Stephen Stillwell	Bainbridge, N. Y	
Distilling, still tub	Isaac Bennitt Charles Jenks	Newtown, Ct E. Windsor, Ct	Dec. 12, 1808 April 25, 1812
Distilling, still, wooden	John J. Giraud		
Distilling, still, worm for		Paris, N. Y	Jan. 11, 1823
Distilling, still, worm for	John G. Webb,	Waterford, N. Y	Feb. 11, 1834
Distilling, turpentine, tar, &c	William A. Rapp	New York	Dec. 4, 1815
Distilling, by using the escape steam of a steam engine	Davis Embree	New Richmond, O	Dec. 3, 1827
Distilling, vapor condenser	William Howe		
Distilling whiskey	Silas Smith	Genesce, N. Y	May 23, 1815
Distilling whiskey from corn	Daniel Lampson		
Distilling, worm, boiler	James Truman	Philadelphia, Pa	June 24, 1809
Distilling, worm, condensing tin, sheet, copper	John Taylor	Virginia	June 13, 1795
Distillery	Henry Becker	Warwick town'p, Pa	June 29, 1833
Distilleries, boilers for	Thomas Pierce	Hartwick, N. Y	Feb. 27, 1819
Distilleries, boilers, anthracite coal,			
setting for	John Lovatt	Philadelphia, Pa	Mar. 17, 1829
Distilleries, and breweries, washing machine for	Leonard Reatty		May 17, 1816
Dropsy and epilepsy, cure for	Leonard Beatty John S. Fall	RattlesnakeSp'gs.Ga	Nov. 25, 1631
Dye, blue	John Pearson	Connecticut	Mar. 3, 1800
Dyeing	Harman Hibbard	Attica, N. Y	May 2, 1843
Dying, with alkaline prussiates	Felix Fossard	Pittsburg, Pa	Dec. 14, 1832
Dying, with alkaline prussiates	Felix Fossard		April 23, 1834 Nov. 7, 1835
Dying, with alkaline prussiates Dying, art of	Patrick Magennis		April 21, 1838
Dying black, mordant for	John D. Prince		April 24, 1841
Dying cotton in the staple, or cot-			
ton wool	James R. Stewart	New York	
Dying furs, wool, and hair skins. Dying hair of seal skins		Albany, N. Y New York	Mar. 14, 1846 Nov. 16, 1826
Dying hats	Joseph Herring Israel Taylor		Aug. 27, 1824
Dying hats	Morris Burt		Nov. 8, 1825
Dying hats	Aaron Gould	Washington, Ct	Jan. 11, 1836
Dying hats, and airing frame, hat	N . T G C	W O.	M 14 1004
block	Norris L. Canfield	₩ IIION, Ct	Mar. 14, 1834
Dying nankeen	Adolphus G. Trott	New York	Feb. 11, 1825
Dying and printing, with two or			
more colors at one impression	James Rennie	Lodi, N. J	Aug. 9, 1834
Dying and printing woollen cloths		Bellville, N. Y	Sept. 18, 1835
Dying silk	Abner Stearns	W.Cambridge, Mass	
Dying silk	William Barrett Thos. Harrison and R.	• • • • • • • • • • • • • • • • • • • •	June 21, 1003
_ /g	Pierpont	New York	Oct. 18, 1814
Dying silk, and finishing	Abner Stearns & Wm.		
70 · 10.	Barrett	W.Cambridge, Mass	Jan. 30, 1818
Dying silk	Abner Stearns & Wm.	Pasten Mass	Sant 9 1919
Dying, by steam	Barrett	Boston, Mass Erin, N. Y	
Dyestuffs from spent madder		Providence, R. I	Sept. 13, 1845
	Abner Stearns & Wm.		
Dulan mand	Barrett	W.Cambridge, Mass	
Dring word from the beamt	Felix Fossard	Philadelphia, Pa	
Dying yarn from the beam Dying yarn, machinery for		Lowell, Mass	mpr. 20, 1000
	Co., assinee of Wm.		
Dysentery, dyspepsy, &c	A. Burke	Manchester, N. H.	May 30, 1844
Dysentery, dyspepsy, &c	Truman Powell	Burlington, Vt	Feb. 2, 1828

^{*}Additional improvement, April 7, 1838. † Reissued May 28; 1840; additional imp't, April 17, 1841.

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Elixir of life				
Elixir, restorative. Samuel Cooley. Bolton, Ct. Nov. 12, 15 Evaporating boiler. John Moffit. New York. Feb. 1. Evaporating furnace. John Richardson. New York. Sept. 13, Evaporating furnace. John Richardson. New York. April 4. Evaporating iquids. Charles Sholes. Phelps, N. Y. July 26, 1 Evaporating pan, or furnace. Augustus Kolb. Steubenville, Ohio. Jan. 14, 1 Evaporating pan, or furnace. Augustus Kolb. Steubenville, Ohio. Jan. 14, 1 Evaporating pan, or furnace. Augustus Kolb. Steubenville, Ohio. Jan. 14, 1 Evaporation yeasels to carry caloric, John C. Douglas. Cincinnati, Ohio. Feb. 19, 1 Evaporation. Thomas Arnold. Nov 5, 1 Thomas Arnold. Nov 5, 1 Thomas Arnold. Nov 5, 1 Evaporation. Thomas Arnold. Nov 5, 1 Evaporation. Thomas Arnold. Nov 5, 1 Evaporation. Samuel T. Harrison. Edwall and B. Henfrey. American Samuel T. Harrison. Edwall and B. Henfrey. Associated and Structure of the Stracting color from dyewoods. Febritige. Associated and Structure of the Stracting color from dyewoods. Febritige. Associated and distilling spirits. Fermenting and distilling spirits. Fermentation, vinous process of conducting. Fermentation, preparing &applying Iran Belknap. Manchester, N. H. Feb. 5, 1 Freezers, artificial. New York N. Henry King. Baltimore, Md. Nov. 7, 1 Fulid, blue for writing. Henry King. Baltimore, Md. Nov. 7, 1 Fulid, blue for writing. Fermenting and distilling spirits. Fermentation, vinous process of conducting. Fermenting and distilling spirits. Fermentation, preparing &applying. Fermenting and distilling spirits. Fermenting and di	INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDÊNCÉ.	WHEN ISSUED.
Elixir, restorative. Samuel Cooley. Bolton, Ct. Nov. 12, 15 Evaporating boiler. John Moffit. New York. Feb. 1. Evaporating furnace. John Richardson. New York. Sept. 13, Evaporating furnace. John Richardson. New York. April 4. Evaporating iquids. Charles Sholes. Phelps, N. Y. July 26, 1 Evaporating pan, or furnace. Augustus Kolb. Steubenville, Ohio. Jan. 14, 1 Evaporating yeasels to carry caloric, John C. Douglas. Cincinnati, Ohio. Feb. 19, 1 Evaporation yeasels to carry caloric, John C. Douglas. Cincinnati, Ohio. Feb. 19, 1 Hons. Bedwell and B. Henfrey. Samuel T. Harrison. Bedwell and B. Henfrey. Samuel T. Harrison. Bedwell and B. Henfrey. Samuel T. Harrison. Bedwell and B. Henfrey. Ass. Johnson. Nov. 1, 10, 11, 11, 11, 11, 11, 11, 11, 11,	Elixir of life	Jules Rucco	Baltimore Md	Mar. 29, 1817
Elixir, vegetable				June 6, 1819
Evaporating furnace. John Richardson. New York. Sept. 1.3 Evaporating pan, or furnace. Augustus Kolb Steubenville, Ohio. Jan. 14, 1 Evaporation yeasels to carry carloric. John C. Douglas. Cincinnati, Ohio. Nov. 5, 1 Evaporator. Thos. Bedwell and B. Henfrey. Pennsylvania. Peb. 12, 1 John Evaporation. John Richardson. New York. Nov. 5, 1 Evaporation. John Evaporation. John C. Douglas. Cincinnati, Ohio. Nov. 5, 1 Evaporator. Thos. Bedwell and B. Henfrey. Pennsylvania. Samuel T. Harrison. John Evaporation. John Evapora				Nov. 12, 1803
Evaporating furnace. John Richardson. New York. April 4. Evaporating iquids. April 4. Evaporating liquids. April 4. Evaporating vessels to carry calorit. Augustus Kolb. Steubenville, Ohio. Jan. 14, 1 Evaporation. Thomas Arnold. Thos. Bedwell and B. Evaporation. Thomas Arnold. Thos. Bedwell and B. Evaporating liquids by steam. J. Marching. April 4. Evaporating liquids by steam. J. J. Mapes and W. A. Cox. Samuel T. Harrison. Evaporating liquids by steam. J. J. Mapes and W. A. Cox. Samuel T. Harrison. Extracting color from dyewoods. Extracting color from dyewoods. Febrifuge. April 6. Extracting apple cider. As J. J. Mapes and W. A. Cox. Samuel T. Harrison. Sept. 27, 1 Marching. Sept. 27, 1 Marching				
Evaporating liquids Charles Sholes Phelps, N. Y. July 26, 1 Evaporating vessels to carry carloric, Charles Sholes Phelps, N. Y. July 26, 1 Steubenville, Ohio. Jan. 14, 1 Evaporation vessels to carry carloric, Chos. Bedwell and B. Henfrey Steubenville, Ohio. Jan. 14, 1 Evaporator Thos. Bedwell and B. Henfrey Baltimore, Md. Dec. 3, 1 Evaporating liquids by steam J. J. Mapes and W. A. Cox New York, N. Y. Mar. 18, 1 Extracting color from dyewoods Febrifuge As Johnson Northumberland, Pa Jan. 11, 1 Fermenting apple cider The Belknap Milliam Elder Northumberland, Pa Jan. 11, 1 Fermenting and distilling spirits. Fermentation, vinous process of conducting. William Elder New Brunswick, N. J. Milliam Elder New Brunswick, N. J. Milliam Elder New Brunswick, N. J. Milliam Elder Man. Johnson. Promentation, vinous process of conducting. Henry King Baltimore, Md. Nov. 7, 1 Elisha Smith Lensing East S. Furnaces See Class 5. Galvanic fluid, curing diseases Office of the human body Gas, antiseptic See Galvanic fluid, curing diseases Daniel Harrington. Philadelphia, Pa. Sept. 9, 1 Gas, annufacturing, by spirit lamp Gas, metras, during the combustion of anthractic coal. Gas, inflammable, during the combustion of anthractic coal. Gas, inflammable, during the combustion of anthractic coal. Gas, manufacturing, for illuminating. Generating, &c., light Seph. 9, 1 Generating from oil Gas, manufacturing, by spirit lamp Gas metres Christ F. Brown. Baltimore, Md. June 29, 1 Gas, manufacturing, by spirit lamp Gas metres Christ F. Brown. Baltimore, Md. June 29, 1 Gas, annufacturing on philadelphia, Pa. July 22, 1 Gas, manufacturing, by spirit lamp Gas metres Christ F. Brown. Baltimore, Md. June 29, 1 Gas, annufacturing on phil				Sept. 13, 1806
Evaporating pan, or furnace. Evaporating pan, or furnace. Evaporating vessels to carry caloric,	Evaporating furnace			April 4, 180
Evaporating vessels to carry caloric			Phelos N. Y	
Evaporation vessels to carry caloric,				Jan. 14, 182
loric,			510450111210, 51110111	
Evaporator. Thos. Bedwell and B. Henfrey. Bedwell and			Cincinnati, Ohio	Feb. 19, 1833
Evaporator				Nov. 5, 1806
Evaporator				,
Evaporating liquids by steam. Extracting color from dyewoods. Extracting color from dyewoods. Febrifuge. As Johnson. Fermenting and distilling spirits. Fermentation, vinous process of conducting. Charles O. Wolpers. Find by the for writing. Henry King. Baltimore, Md. New York, N. Y. Mar. 18, 1 Dorset, V. Sept. 27, 1 Asa Johnson. Northumberland, Pa Jan. 11, 1 Feb. 5, 1 Frementation, vinous process of conducting. Charles O. Wolpers. Finding the forwiting. Henry King. Baltimore, Md. Mar. 24, 1 Feb. 5,			Pennsylvania.	Feb. 12, 1801
Extracts, making	Evaporator	Samuel T. Harrison		Dec. 31, 1838
Extracts, making	Evaporating liquids by steam	J. J. Manes and W. A.		,
Extracts, making	z		New York, N. Y	Jan. 7, 1846
Extracting color from dyewoods Febrifuge. Asa Johnson. Northumberland, Pa Fermenting and distilling spirits. Fermenting and distilling spirits. Fermentation, vinous process of conducting. Fluid, blue for writing. Flaid, Stowell. Fluid, blue for writing. Fluid, blue for	Extracts, making		Rve. N. Y	Mar. 18, 1836
Febrifuge			Dorset. Vt	Sept. 27, 1838
Fermenting and distilling spirits. Fermentation, vinous process of conducting				Jan. 11, 1819
Fermenting and distilling spirits. Fermenting and distilling spirits. Fermenting and distilling spirits. Fermenting and distilling spirits. Fermentation, vinous process of conducting. Fluid, blue for writing. Fluid, blue for writing. Flower artificial. Formentation, preparing & applying Freezers, artificial. Ferriction matches. Firction matches. Firction matches. Furnaces.—See Class 5. Fuse, safety, blasting rocks.—See Galvanic electricity, to cure diseases. Galvanic electricity, applied to the surface of the human body. Galvanic fluid, curing diseases. Galvanic fluid, curing diseases. Galvanism, for salivation. Gas, analyseptic. J. G. M. Picornell. Gas, apparatus for generating. Gas, carburetted hydrogen. Gas, inflammable, during the combustion of anthracite coal. Gas, inflammable, during the combustion of anthracite coal. Gas, inflammable, during the combustion of anthracite coal. Gas, manufacturing, for illuminating, generating, &c., light. Gas, manufacturing from oil. Gas, manufacturing, for illuminating, generating, by spirit lamp Gas metres. Gas metres. Gas metres. Charles O. Wolpers. Charles O. Wolpers. Henry King. Baltimore, Md. Nov. 7, 1 Cambridge, Mass. Aug. 30, 1 Philadelphia, Pa. April 23, 1 Philadelphia, Pa. April 24, 1 Amariah Pierce. Philadelphia, Pa. April 24, 1 Amariah Pierce. Philadelphia, Pa. April 23, 1 Amariah Pierce. Philadelphia, Pa. April 23, 1 Amariah Pierce. Philadelphia, Pa. April 24, 1 Amariah Pierce. Philadelphia, Pa. April 25, 1 April 5, 1 April 24, 1 April 25, 1 April 25, 1 April 26, 1 April 20, 1 April	Fermenting apple cider			
Fermentation, vinous process of conducting				July 20, 1827
Fermentation, vinous process of conducting			Manchester, N. H.	Feb. 5, 1836
Conducting		100000		
Fluid, blue for writing		Charles O. Wolpers	Cincinnati, Ohio	July 16, 1841
Fomentation, preparing & applying Freezers, artificial				
Freezers, artificial				Aug. 30, 1832
Friction matches				Sept. 9, 1843
Furnaces.—See Class 5. Fuse, safety, blasting rocks.—See Galvanic electricity, applied to the surface of the human body. Galvanic fluid, curing diseases. Galvanic fluid, curing diseases. Galvanic fluid, curing diseases. Galvanism, for salivation. Gas, antiseptic. J. G.M. Picornell. J. Henry Abiliadelphia, Pa. J. June 27, 1 Philadelphia, Pa. J. June 27, 1 Phil				
Fuse, safety, blasting rocks.—See Galvanic electricity, to cure diseases			,	
Galvanic electricity, to cure diseases		Class 9.		
Calvanic electricity, applied to the surface of the human body. Galvanic fluid, curing diseases. Galvanism, for salivation. Daniel Harrington. Philadelphia, Pa. April 8, 1 Philadelphia, Pa. July 22, 1 William Phœbus. New York. Mar. 24, 1 Philadelphia, Pa. June 9, 1 Philadelphia, Pa. June 27, 1 Remainin Kugler. Philadelphia, Pa. June 27, 1 Remainin Kugler. Philadelphia, Pa. June 27, 1 Remain York. Dec. 27, 1 George Michiels Paris, France Oct. 3, 1 Remainin Kugler New York Feb. 11, 1 Solomon Andrews Perth				
Galvanic electricity, applied to the surface of the human body Galvanic fluid, curing diseases Galvanic fluid, curing diseases Daniel Harrington Philadelphia, Pa Philadelphia, Pa July 22, 1 Philadelphia, Pa June 9, 1 Philadelphia, Pa Philadelphia, Pa June 9, 1 Philadelphia, Pa June 9, 1 Philadelphia, Pa Philadelphia, Pa June 9, 1 Philadelphia, Pa June 9, 1 Philadelphia, Pa Philadelphia, Pa June 9, 1 Philadelphia, Pa Philadel		Daniel Harrington	Philadelphia, Pa	Mar. 31, 1835
Surface of the human body. Galvanic fluid, curing diseases. Galvanic fluid, curing diseases. Galvanic fluid, curing diseases. Galvanism, for salivation. Gas, antiseptic. Gas, antiseptic. Gas, apparatus for generating. Gas, carburetted hydrogen. Gas, combustible. Gas, inflammable, during the combustion of anthracite coal. Gas, inflammable, during the combustion of anthracite coal. Gas, lamp.—See Class 5. Gas light. Gas light, from cotton seed. Gas, manufacturing, for illuminating, generating, for, light. Gas, manufacturing, for illuminating, generating, etc., light. Gas manufacturing, by spirit lamp Gas metres. Gas metres. Gas metres. Gas metres. Gas metres. Gas manufacturing, for illuminating, generating, for illuminating, generating, dec., light. Gas metres. Gas purifying, for illumination. Gelaune, preparation of, portable. General Waldron. Gelaune, preparation of, portable. General Waldron. Mew York. General Pritamin, Eng. Sept. 22, 1 April 29, 1 April 29, 1 April 20, 1 Amril 21,				•
Galvanic fluid, curing diseases Galvanic fluid, curing diseases Galvanic fluid, curing diseases Galvanism, for salivation Gas, antiseptic J. G. M. Picornell Milliam Phœbus New York June 9, 1 June 27, 1 Gas, apparatus for generating Gas, carburetted hydrogen Gas, carburetted hydrogen Gas, combustible William Garnett M. Ward and R. W. Hall Gas, improvement in the manufacturing for illuminating, generating, &c., light Gas, manufacturing from oil Gas, manufacturing from oil Gas, manufacturing from oil Gas, manufacturing, by spirit lamp Gas metres Gas metres Gas metres Gas metres Chris'r F. Brown. Baltimore, Md. June 27, 1 Gasometer Gasometer Chris'r F. Brown. Baltimore, Md. June 21, 1 Gasometer Gasometer Gasometer Gasometer Gasometer Gasometer Gasometer June 27, 1 Gelatine, preparation of, portable. Gas metros Chris'r F. Brown. Baltimore, Md. June 21, 1 Gasometer Gasometer Chris'r F. Brown. Baltimore, Md. June 22, 1 Sept. 22, 1 Gasometer Chris'r F. Brown. Baltimore, Md. June 21, 1 Gasometer Gasometer Chris'r F. Brown. Baltimore, Md. June 22, 1 Gasometer Gasometer Chris'r F. Brown. Baltimore, Md. June 22, 1 Gasometer Chris'r F. Brown. Baltimore, Md. June 21, 1 Gestor. Gas, purifying, for illumination. Gasometer June 10, 1 Gelatine, preparation of, portable. Gis, manufacturing Peter Cooper. New York. Amril 10, 1 Gelatine, preparation of, portable. Gis, manufacturing Peter Cooper. New York. April 29, 1			Philadelphia, Pa	April 8, 1835
Galvanic fluid, curing diseases. Galvanism, for salivation. Gas, antiseptic. Gas, antiseptic. Gas, antiseptic. Gas, antiseptic. Gas, antiseptic. Gas, carburetted hydrogen. Gas, carburetted hydrogen. Benjamin Kugler. William Garnett. Gas, inflammable, during the combustion of anthracite coal. Gas, improvement in the manufacture of Gas, improvement in the manufacturing, for illumination, generating, &c., light. Gas, manufacturing from oil. Gas, manufacturing, by spirit lamp Gas metres. Gas metres. Gas metres. Gas metres. Gas metres. Gas manufacturing, for illumination. Gas metres. Chreat Britain, Eng. Sept. 22, 1 Great Britain, Eng. Sept. 22, 1 Gas, purifying, for illumination. Gelaune, preparation of, portable. Gia, manufacturing. Daniel Madron. New York. April 29, 1				July 22, 1833
Galvanism, for salivation				Jan. 27, 1834
Gas, apparatus for generating Gas, carburetted hydrogen. Gas, carburetted hydrogen. Gas, combustible				June 9, 1807
Gas, apparatus for generating* Gas, carburetted hydrogen Gas, combustible	Gas, antiseptic	J. G. M. Picornell	New York	Mar. 24, 1803
Gas, inflammable, during the combustion of anthracite coal. Gas, improvement in the manufacture of \	Gas, apparatus for generating	Amariah Pierce	Philadelphia, Pa	June 27, 1846
Gas, combustible	Gas, carburetted hydrogen	Benjamin Kugler	Philadelphia, Pa	April 23, 1816
bustion of anthracite coal. Gas, improvement in the manufacturing for illumination. Gas light	Gas, combustible	William Garnett	New York	Dec. 27, 1822
Gas, improvement in the manufacture of \(\)		M. Ward and R. W.		
facture of	bustion of anthracite coal.	Hall	Baltimore, Md	Jan. 19, 1828
Gas, lamp.—See Class 5. Gas light. Gas light, from cotton seed. Gas light, from cotton seed. Gas manufacturing, for illuminating, generating, &c., light. Gas, manufacturing from oil. Gas, manufacturing from oil. Gas, manufacturing, by spirit lamp Gas metres. Gas metres. Gas metres. Gas metres. Gas metres. Chris'r F. Brown Baltimore, Md. June 22, 1 Gasometer. James Bogardus New York. Oct. 7, 1 June 11, 1 Gelatine, preparation of, portable. Gia, making. Peter Cooper. New York. April 10, 1 Glue, fish. John H. Mark. Philadelphia, Pa. Oct. 3, 1 April 29, 1	Gas, improvement in the manu-			
Gas light		George Michiels	Paris, France	Oct. 3, 1846
Gas light, from cotton seed	Gas, lamp.—See Class 5.			
Gas, manufacturing, for illuminating, generating, &c., light. Gas, manufacturing from oil. Gas, manufacturing from oil. Gas metres. Gas metres. Gas metres. Gas metres. Gas metres, self-acting, dry. Gas metres, self-acting, dry. Gasometer. Gasometer. Gasometer. Gas, purifying, for illumination. Gelatine, preparation of, portable. Gin, making. Glue, fish Glue, fish Glue, manufacturing. Joseph Boston. New York. Perth Amboy, N. J. May 5, 1 May 5, 1 May 5, 1 May 10, 1 Chris'r F. Brown. Baltimore, Md. June 22, 1 Baltimore, Md. June 11, 1 Gas, purifying, for illumination. Richfield, N. Y. June 27, 1 Glaune, fish Daniel Garnet Richfield, N. Y. June 27, 1 Glue, fish Daniel Waldron. New York April 10, 1 April 10, 1 Chris'r F. Brown. Baltimore, Md. June 11, 1 Cott. 7, 1 Gas, purifying, for illumination. Richfield, N. Y. June 27, 1 Glue, fish Daniel Waldron. New York April 10, 1 April 10, 1 Chris'r F. Brown. Baltimore, Md. June 11, 1 Cott. 7, 1 Gas, purifying, for illumination. Richfield, N. Y. June 27, 1 April 10, 1 Chris'r F. Brown. Baltimore, Md. June 11, 1 Cott. 7, 1 Gas, purifying, for illumination. Richfield, N. Y. June 27, 1 April 10, 1 Chris'r F. Brown. Baltimore, Md. June 11, 1 Cott. 7, 1 Gas, purifying, for illumination. New York. Oct. 3, 1 Chris'r F. Brown. Baltimore, Md. June 11, 1 Chris'r F. Brown. Baltimore, Md. June 22, 1			Washington, D. C.	Jan. 31, 1845
ting, generating, &c., light		Denison Olmstead	New Haven, Ct	July 21, 1827
Gas, manufacturing from oil. Gas, manufacturing, by spirit lamp Solomon Andrews. Gas metres. Gas metres. Gas metres. Gas metres. Gas metres. Gas metres, self-acting, dry. Gasometer. Henry B. Williams Baltimore, Md June 22, 1 New York. Oct. 7, 1 June 27, 1 Gelatine, preparation of, portable. Gis, making. Erastus V. Freeman April 10, 1 Glue, fish New York. Mar. 4, 1 Glue, manufacturing. Peter Cooper. New York. April 29, 1				
Gas, manufacturing, by spirit lamp Gas metres				Feb. 11, 1831
Gas metres			Perth Amboy, N. J.	April 15, 1831
Gas metres	Gas, manufacturing, by spirit lamp	Solomon Andrews	Perth Amboy, N. J.	May 5, 1831
Gas metres, self-acting, dry. Samuel Clegg. Great Britain, Eng. Sept. 22, 1	Gas metres	Henry Robinson	Boston, Mass	Mar. 10, 1831
Henry B. Williams Baltimore, Md June 11, 1		Chris'r F. Brown	Baltimore, Md	June 22, 1842
Gasometer				
Gas, purifying, for illumination. Gelatine, preparation of, portable. Gia, making. Glue, fish. Glue, manufacturing. John H. Mark. Peter Cooper. New York. June 27, 1 Peter Cooper. New York. June 10, 1 Mark 4, 1 Glue, manufacturing. Peter Cooper. New York. April 29, 1	Gasometer			
Gelatine, preparation of, portable. Peter Cooper	Gasometer	James Bogardus	New York	Oct. 7, 1834
Giue, making. Erastus V. Freeman April 10, 1 Glue, fish Daniel Waldron New York Mar. 4, 1 Glue, manufacturing John H. Mark Philadelphia, Pa Oct. 3, 1 Glue, manufacturing Peter Cooper New York April 29, 1	cas, puritying, for illumination	Daniel Garnet	Richneid, N. Y	June 27, 1840
Glue, manufacturing Peter Cooper New York April 29, 1	Cin	reter Cooper	TAEM ROLE	June 10, 1845
Glue, manufacturing Peter Cooper New York April 29, 1	Cin, Making	Prastus v. Freeman	NT NZ1-	April 10, 1811
Glue, manufacturing Peter Cooper New York April 29, 1	Clus assertions	Daniel Waldron	IVEM LOLK	Mar. 4, 1819
Glue, manufacturing Peter Cooper New York April 29, 1	Clue, manufacturing	John H. Mark	Philadelphia, Pa	VCL. 3, 1882
onuc, manusacuring Jonathan Morgan Portand, Mc Sept. 18, 1	Glue, manufacturing	Peter Cooper	New York	April 29, 1830
	Grue, manuracturing	Jouannan Morgan	roruma, Me	oabr 19, 1939

^{*} Antedated Dec. 27, 1845.

INVENTIONS OR DISCOVERIES.	PATENTERS.	residence.	WHEN ISSUED
Glue, manufacture of	Herman G. C. Paulsen		Feb. 28, 1849
Gout nostrum	Elisha Smith	New York	Dec. 15, 1821
Gout and rheumatism, cure for		Accomack co., Va	Nov. 4, 1851
Gum elastic, manufacturing	. Charles Goodyear	Roxbury, Mass	July 24, 1838
Gum elastic, for vessels.—See Cla		D 1 . M	A 0 1005
Gum, senegal, substitute for*		Dorchester, Mass	Aug. 8, 1837
Gypsum, applied to cisterns	J. Flint and C. Mills	New York, N. Y	Mar. 4, 1836
Hemp preparation	Richard Deering, sen.		June 25, 1845
Hemp preparation	Thomas H. Barlow	Lexington, Ky	June 25, 1845
Hemp rotting	Geo. W. Billings and	Claren Ma	Mar. 10 1045
Tions complementing of	John Harrison	Glasgow, Mo	Ana 16 1045
Hose, construction of	Horace H. Day	Jersey City, N. J	Aug. 10, 1043
Ice, accumulating.—See Class 22.		·	
Igniting powder, and other sub			
stances, by applying hydroger	Alamandan Tanan	Makila Ala	A 1 00 1024
gas and platina	Alexander Jones	Mobile, Ala	April 22, 1834
Incrustation in steam boilers, pre		No. Vanle N. V	Dec 00 1046
venting.	Barnum	New York, N. Y	Dec. 22, 1846
India rubber.—See Class 22.	Nolon Condess	N C.	Man 12 1045
India rubber fabrics	Nelson Goodyear	Newtown, Ct	May 13, 1845
India rubber fabrics	Charles Goodyear	New York	June 10, 1845
India rubber, manufacture of	Stephen C. Smith	New York	Dec. 7, 1837
India rubber, manufacture of	Nelson Goodyear	Newtown, Ct	April 22, 1845
India rubber, shirring machinet	James Bogardus	New York	Nov. 21, 1845
India rubber, softening previous to	T 787 TT	37 37 1 37 37	T 15 1040
grinding	J. W. Harmon	New York, N. Y	Jan. 15, 1846
India rubber threads, machine for		Jersey City, N. J.	June 7, 1845
cutting.	H. G. Tyre & J. Helm	N. Brunsw'k, N. J	,
India rubber shreds, machine for		N 37 1	NT 01 1045
Tale block making	James Bogardus	New York	Nov. 21, 1845
Ink, black, making	Peter Ferris	Greenwich, Ct	Dec. 5, 1842
Ink, indelible writing	Thomas J. Spear	New Orleans, La	June 16, 1841
Ink, printers'	Berry Chase	New London, Ct	June 28, 1810
Ink, printers'	Edward Clark	Brooklyn, N. Y	July 5, 1845
Ink, writing	John D. Myers	New York	Sept. 26, 1835
Iron, protecting from oxidation	Palmer Sumner and P.	Norr Vouls	Oct 19 1990
Teingloop	Naylor William Hall	New York	Oct. 18, 1839
Isinglass		Boston, Mass	Mar. 23, 1822
Isingless	Joseph Hastings	Cambridge, Mass	Aug. 14, 1822
Isinglass, or ichthyocolla	Wm. Norwood, John		
	Burns, Jabez Rowe,	Clausesten Mass	Ton 01 1004
Tanan applied to leather	and Josiah Haskell William Gates	Gloucester, Mass	Jan. 21, 1834
Japan, applied to leather	Alfred Stillman	Hanover, N. Y	Nov. 14, 1835
Juices, saccharine, evaporating Lampblack	Joseph Hastings	New York	Aug. 17, 1843 Aug. 15, 1826
	John G. Mini	Cambridge, Mass	
Lampblack, making	H. A. Amelung	Philadelphia, Pa	Nov. 13, 1844
Lard, preparing	Ebenezer Wilson	Alton, Ill Cincinnati, Ohio	Nov. 13, 1844 Oct. 9, 1844
Lard, rendering		Cincinnat, Onto	Oct. 3, 1044
Lard, or tallow, converting into separate substances	Benjamin Lapham	Lexington, Ky	Mar. 1, 1833
Leaching ashes	Garret Clements	Canandaigua, N. Y.	June 10, 1837
Leaching ashes	Elijah Williams	Westfield, N. Y	Jan. 9, 1838
Lead, carbonate of		Saugerties, N. Y	
	Charles Ripley	Saugerues, 14. I	July 11, 1837
Lead pipes, method of tinning	R. W. Lowber, ass'ee		/
	Kneeland	New York	Mar. 12, 1845
Lead, red	Samuel Witherill, jr	Philadelphia, Pa	
Lead, white	Samuel Witherill, jr	Philadelphia, Pa	
Lead, white	Elisha De Butts	Baltimore, Md	May 5 1914
Lead, white	James Welsh & Thos.	Dalumoro, Mu	May 5, 1814
	Evans	Philadelphia Da	Aug. 15, 1814
	۲۵۱۱۱۵۰ نند	Philadelphia, Pa	
Lead, white	George F Hagner	Philadelphia Pa	Oct 12 1217
Lead, white	George F. Hagner	Philadelphia, Pa	Oct. 13, 1817 Mar 98, 1818
Lead, white	George F. Hagner Edward Clark	Philadelphia, Pa	Mar. 28, 1818

^{*} Antedated May 30, 1837.

			
• IMPENTIONS OR DISCOVERIES.	Patryt eż s.	RESIDENCE.	WHEN ISSUED.
Lead, white	John Burney	N. Haven town'p, O.	Jan. 2, 1919
Lead, white	George A. Harrison	New York	July 20, 1821
Lead, white	Homer Holland	Westfield, Mass	Mar. 18, 1896 Dec. 4, 1898
Lead, white*	Edward Clark	Saugerties, N. Y	Dec. 4, 1938
Lead, white	Joseph Richards	Philadelphia, Pa	Dec. 2, 1866
Lead, white	Peregrine Phillips	Campbell co., Ky	April 17, 1977 June 7, 1898
Lead, white	William Cumberland. Homer Holland	New York city	June 7, 1838 Nov. 3, 1838
Lead, white, manufacture of	Chas. Button and Har-	Westfield, Mass	1107. 3, 1090
22004, 11 110, 11 11 11 11 11 11 11 11 11	rison G. Dyar	London, England	April 10, 1839
Lead, white, manufacture of	Smith Gardner	New York	
Lead, white, manufacture of	Horace Cory	England	
Lead, white, preparing white lead			
paint	James N. Trovillo	Christiansburg, Va	Mar. 31, 1840
Lead, white, separating the oxide		G N. V	T.1. 11 1000
of lead	Edward Clark	Saugerties, N. Y	July 11, 1839
Lead, white, separating the oxide of lead	Edward Clark	Saugerties, N. Y	Dec 5 1839
Lead, white, and Paris white	Cyrus Watrous	Groton, Ct	Jan. 26, 1833
Lead, white, screening	Samuel Witherill, jr	Philadelphia, Pa	Nov. 1, 1811
Lead, white, washing	Samuel Witherill, jr	Philadelphia, Pa	Oct. 29, 1811
Lead, white, and white flake	Alexander Hamilton	New York	Nov. 8, 1813
Ley, cleansing, melting potash	Jonathan Jones	Fabius, N. Y	
Light, extracting from fuel	Benjamin Henfry	Pennsylvania	
Light, extracting from fire	Isaiah Jennings	New York	
Light, and heat, generating	H. L. Barnum	New York	June 2, 1836
Light, producing by a combination of liquids	Isaiah Jennings	New York	June 13, 1831
Light, producing by a combination		TICW TOTAL	June 10, 1001
of liquids, to lamps without wicks		New York	Oct. 16, 1830
Light, from stone coal gas	Lewis Enters and W.		,
	Zigfer	Georgetown, D. C	Sept. 28, 1815
Lime, hydraulic	Robert Leckie	Washington, D. C	Mar. 31, 1829
Liquids, charging with gas	Jos. H. Laning	Davidson co., Tenn.	
Liquids, mode of evaporating	William Henry	Laporte, Ind	Jan. 8, 1839
Liquids, skimming	Charles Harrival	Baton Rouge, La Pennsylvania	April 26, 1845 July 21, 1803
Liquor, cooling Liquor, determining the strength of	William Cornelf	Brooklyn, N. Y	Aug. 20, 1827
Lotion, magic	John Hopkins	Philadelphia, Pa	Aug. 24, 1809
Magnesia, medicated, liquid	John Callan	Philadelphia, Pa	May 4, 1818
Magnesia, medicated, liquid			
36	Anderson	Philadelphia, Pa	June 25, 1834
Magnesia, preparing		Boston, Mass	
Magnesia, preparing		Boston, Mass	
Malt, washing	William Ellis Louis Matthew	New Jersey Brooklyn, N. Y	June 18, 1799 Mar. 7, 1827
Mash, cooling, for distillation	Thomas Whitemell	Scotland Nesk, N. C.	
Mash, machine for distilleries	Warham Whitney	Rochester, N. Y	Jan. 19, 1826
Match lights, and boxes	Richard Allison and N,	•	•
· .	S. Allison	Burlington, N. J	Mar. 26, 1814
Matches, friction	Alonzo D. Phillips	Springfield, Mass	
Matches, friction	William K. Ashard	New York	June 24, 1843
Matches, friction, composition of	John H. Stavens	New York, N. Y	Nov 16 1920
matter	Norman T. Winana	I TIOW I UIA, II. I	1101. 10, 1003
matter.	Theodore & Thadde-		
	us Hyatt	New York, N. Y	Dec. 23, 1841
Matches, friction, composition of	Norman T. Winans,	,	,
matter.	Theodore & Thadde-	., .,	
Marahan Cinton	us Hyatt	New York, N. Y	Dec. 23, 1841
Matches, friction, preventing acci-	John H Grana	Now Voul- N V	No. 10 1090
dental ignition	John H. Stevens John H. Stevens	New York, N. Y New York, N. Y	
• • • • • • • • • • • • • • • • • • •	AA. NAGTOHD	ATOM A DESIGNATION	au, 1033
•		'	

^{*}Reissued July 3, 1832, and June 90, 1836; extended Nov. 16, 1842, 7 years from 4th December, 1842.

INVENTIONS OR DISCOVERISM.	PATENTEES.	reșidance.	WHEN ISSUED.
Matches, friction, ignitable com-		•	
pound	Stephen Blaisdell	Brunswick, Me	
Matches, friction, paste for	George W. Carleton	Bath, Me	May 20, 1842
Matches, locofoce, dipping	Jehu Hatfield	Stillwater, New York	
Mash tubs	Benjamin Roop	Pekin, Ohio	May 6, 1844
Mead, carbonated	James Heaton	New York	July 28, 1819
Mead, carbonated, sarsaparilla	John Schieffelin	New York	July 19, 1824
Mead, composition	T. T. Kimball and A. H. White	Dedham, Mass	Sept. 26, 1835
Mead, sarsaparilla, portable	Jonas C. Brigham	Methuen, Mass	July 25, 183;
Medicine	Samuel Thompson	Surrey, N. H	Mar. 2, 1813
Medicine	Lorenzo Dow	Hebron, Conn	Nov. 24, 1820
Medicine	John Prentiss	New London, Conn.	Mar. 27, 182
Medicine	Samuel Thompson	Boston, Mass	Jan. 28, 1823
Medicine	Fitzgerald-Bird	Hancock, Ga	April 16, 1898
Medicine	John Dent	Augusta, Ga	July 2, 1828
Medicine	Jos. Baker	Jefferson towns'p, O.	May 5, 183
Medicine, administering, by steam	Charles Whitlow	New York	Feb. 16, 182
Medicine, anti-dysenteric	John G. Vought	Rochester, N. Y	Dec. 4, 1821
Medicine, anti-spasmodic tincture.	Horton Howard	Columbus, Ohio	Aug. 25, 1829
Medicine, astringent tonic	Horton Howard	Columbus, Ohio	Aug. 25, 1839
Medicine, bitter tonic	Horton Howard	Columbus, Ohio	Aug. 25, 1832
Medicine, botanic	Samuel Thompson	Boston, Mass	May 6, 1836
Medicine, canker drops	David Holbrook	Onondaga co., N. Y.	Mar. 28, 181
Medicine cases	Allen Harrington	Otsego, N. Y	July 16, 1811
myrrh	Horton Howard	Columbus, Ohio	Aug. 25, 1832
Medicine, cure for the bite of a			
_ mad dog.	trix of Wm. Stoy	Lebanon, Pa	June 9, 1809
Medicine, cure for cholera	Jacob Houck	Baltimore, Md	Oct. 25, 1833
Medicine, cure for cholera Medicine, diaphoretic or sweating			Aug. 12, 183
powders	Horton Howard		Aug. 25, 183
Medicine, for scrofula, &c Medicine for the treatment of sy-			July 16, 182
philis, &c	Silas T. Thurman		July 23, 184
Medicine, worm destroying Metallic compound for sheathing	John J. Oellig	Waynesborough, Pa	Oct. 26, 163
vessels	John Revere	Boston, Mass	Mar. 24, 183
Metallic solution, for preserving		Garat Britain Ban	Dal 10 100
Minoral mater appropriate	Webster Flocton	Great Britain, Eng.	Feb. 16, 183
Mineral water, apparatus	James S. Ewing	Philadelphia, Pa	Feb. 10, 181
Mineral water, apparatus	Samuel Fahnestock		April 23, 1819 Sept. 7, 1809
Mineral water, artificial	Joseph Hawkins Garret E. Pendergast.		Aug. 18, 181
Mineral water, family fountain		I madeipma, I a	Mug. 10, 101
Mineral water, giving temperature	Joseph Hawkins	Philadelphia, Pa	April 5, 182
Mineral water, manufacturing	Benjamin Marshall		Dec. 5, 181
Mineral water, manufacturing	William Mead		April 12, 183
Mineral water, saturating with fix-			p 1-0, 100
ed air.	J. J. Rundell		April 16, 1810
Mineral water, Seidlitz or Rochelle			
Mineral water, soda apparatus	George Ott	Norfolk, Va	June 18, 183
Mineral water, soda apparatus	Justus Perkins	Brutus, N. Y	May 3, 183
Mineral water, soda apparatus		New Berlin, N. Y	June 13, 183
Mineral water, soda apparatus		Brutus, N. Y	
Mineral water, soda apparatus	Noah H. Coleman		July 20, 183
Mineral water, soda apparatus	Ambrose Church		July 20, 183
Mineral water, soda apparatus	George H. Duffey		April 19, 183
Mineral water, soda apparatus	Joseph H. Laning		June 22, 183
Mineral water, soda fountain	James Fraley and A. Kirkpatrick		!
Mineral water, soda fountain	Jacob Ebert and Geo.		
	Duity	Wheeling, Va	April 24, 1030

			
INVENTIONS OR DISCOVERIES.	PATENTIES.	residence.	WHEN 18SUED.
Mineral water, soda fountain	Joseph Boston and T.		
	Bryant	New York Rochester, N. Y	April 11, 1836
Mineral water, soda fountain Mineral water, soda fountain, por-	Lansing B. Swan	l .	1
table	Lemuel B. White	Cincinnati, Ohio	Aug, 9, 1339
Oils, animal, purifying	Alfred Traband		
Oil, bene	William Few	New York	Mar. 1, 1809
Oil, castor, clarifying	John Hallock	Burlington, N. J	Nov. 5, 1818
Oil, castor	Timothy Pharo	Tuckerton, N. J	Feb. 5, 1822
Oil, coloring, lamp	Ezra Bourne	New York	Mar. 4, 1834 Feb. 93 1811
Oil, columbian	Thomas PaulGeorge P. DiggesGideon Palmer	Albemarle Va	Dec. 16, 1820
Oil, cotton seed	Gideon Palmer	Montville Conn	Dec. 14, 1830
Oil, cotton seed, purifying	John J. Giraud	New York	Aug. 14, 1833
Oil, extracting	John J. Giraud Charles Whiting	Massachusetts	Mar. 2, 1799
Oil, extracting, from flax seed	David Dodge John G. Gebhard	Hamilton, Mass	May 14, 1827
Oil, extracting, from palma christi	John G. Gebhard	New York	Feb. 4, 1800
Oil, fish, whale, and sperm	David C. Knapp, Chs.		• •
	H. Knapp, and Allen	Onwago N V	May 90 1839
Oil from rosin	William T. Clough	Oswego, N. Y Jersey City, N. J	April 22, 1845
Oils, fish and other, process of		sersey Ony, 11. 5	11pin 2010
cleansing	Patrick Fitz Simmons.	West Troy, N. Y	April 4, 1846
Oil, flax seed	C. How, F. Brewster,	Moreto'n, Colches-	.,
,	and John Johnston .	ter,&Chittenden Vt	May 24, 1828
Oil of hazze, preparation of	Preswick and Fisher .	New York	Aug. 17, 1835
Oil, infusing into leather	Henry Guest	New Jersey	July 16, 1801
Oil, lamp, purifying	Eli Fourestier	Philadelphia, Pa	Nov. 17, 1808
Oil, linseed, for varnish	N. S. Parmentier	Philadelphia, Pa	Jan. 30, 1809
Oil, linseed, substitute for	Todd and Peabody	Washington, D. C.	July 7, 1835
Oil, purifying	Dan. Markum Lewis Mecesne	Lenox, N. Y New York	Dec. 2, 1824 June 23, 1812
Oil, purifying, sperm and whale	John L. Embree		June 13, 1831
Oil, pyroligneous, and acid, for	John 2. Emoree	TION TOTAL	1002
tanning	Horace H. Hayden	Baltimore, Md	Nov. 26, 1823
Oil, refining	Charles E. Ruggles		July 20, 1829
Oil, sod, for leather	George Poyzer		May 10, 1805
Oil, sperm, clarifying	Richard Robotham	New York	Aug. 14, 1799
Oil, sperm, whale, cotton seed, &c.,			
clarifying	Ephraim C. Moss	New York	Dec. 28, 1832
Oil, and spirits of turpentine, pre-	John G. Bondonmot	Dalmanna N V	T., 1 0 1020
paring for paint	John G. Pendergast	Palmyra, N. Y	July 9, 18 30 Nov. 23, 18 39
Oil, and sugar, boiler, for refining.	L. J. Van Kleek William A. Archbald.	Poughkeepsie, N. Y. New York	May 29, 1898
Oil from the sun flower	Charles A. Barnitz	Spring Garden, Pa	May 29, 1828 Oct. 20, 1830
Oils, volatile, for illuminations,		-pg,	,,
modes of using	B. F. Greenough	Boston, Mass	Nov. 15, 1843
Oils, whale and spermaceti, method		·	
of detecting admixtures and adul-			
terations of	John W. Harris		Sept. 3, 1840
Oil, whale, clarifying	Benjamin Folger	Hudson, N. Y	Jan. 2, 1792
Ointment (on Tudking's)	William Judkins	Balmant as Ohio	June 26, 1816
Ointment, (on Judkins's,) Ointment, for cancer	Nathan Shepherd Elias Gilman	Licking Ohio	Mar 31 1836
Ointment, cure of diseases	Wm. Waller Gray	Richmond. Va	Mar. 18. 1835
Ointment, mercurial, machines for			
making	James W. W. Gordon		June 5, 1844
Ointments for piles	William W. Riley		Jan. 31, 1844
Oleaginous seeds, preparing for	-		•
pressing	James Creswell	Pittsburgh, Pa	July 31, 1837
Unium, pressing, from nonny	Lucius Cook	Shrewsburg, N. H	April 20, 1832
Oxymuriate of lime, preparing Paint, brown Paint and colors, preparing	Jonas Kendall	Lincoln, Mass	Jan. 25, 1820
Paint and colors preparis	Henry Alexander	Reltimore Md	Ton 14 1912
- erre ener corors, brebering	TTELLA UTEXAUREL	Dalminote, Man	Aun. 14, 1019

DESCRIPTION OR DISCASSING.	PATRICINAL.	water	THE PARTY OF THE P
Brint, composition.	Philip A. Klipstine	New Baltimore, Va.	July 99, 1688
Paint, composition	H. Hibbard	Darien, N. Y	Sept 90, 1
Paint, composition	William Cox	Dayton, Ohio	July 20, 1681. Sept. 20, 1685. Oct. 22, 1687.
Paint, composition, for drying	Nathan Hemenway	W.Springfield, Mass.	Feb. 22, 1
Paint, composition of matter for	Chandler Metcalf	Hanover, N. H	Feb. 25, 1661
Paint, or composition of matter for,	·		
and lubricating ships' ways for	7771 's 3.6 1	a	O-4 OF 1990
launching	Whitman Mead	Greenwich, Conn	OCL 23, 1832
Paint, composition, metallic oxide for white	Forrest Shepherd	Fredericksburg, Va.	Mer 18 1895
Paint, or composition, rendering		riodenements, va.	10000
silk, &c., water proof.	mas Chandler, John		
2, 2, water process	M. Millikin, and He-		}
•	zekiah Winslow	Unity, Maine	June 4, 1832
Paint, composition, stone	Elisha Skinner and	,	
•	John Webster	Sandwich, N. H	
Paints, for fire and water proof	Joseph Weisman	Philadelphia, Pa	
Paint, galvanic, protecting iron			
from rust	Lewis Knapp	New York	July 1, 1840
Paints or pigments, improvement			July 10, 1840
in.*	Fanny Corbaux, and		Ì
D : 4	Alexander S. Byrne		
Paint, &c., vessels for preserving.	John Rand	Citizen United States,	
Daint making over into	Robert Nicholson	now in England	
Paint, making ores into Paint, making ores into		Bairdstown, Ky Whitestown, N. Y	Feb 10 1814
Paint, mixing			Mar. 26, 1831
Paint, for plastered walls		Bethany, N. Y	Feb. 2, 1828
Paint, protection of buildings			Nov. 11, 1837
Paints, water proof		Troy, N. Y	Mar. 15, 1845
Paint, white, mode of preparing.	Henry C. Otto	. Philadelphia, Pa	Feb. 28, 1842
Paint, white, water color			
Paint, yellow			
Panacea	Jacob Houck	Baltimore, Md	May 9, 1633
Paste, Italian, maccaroni	Douban Ainemouth	. Philadelphia, Pa	Mor 14 1906
Pearl ash, making, without oven		Linklean, N. Y	May 14, 1606
Pearl ashPigment, black, for printing o	r J. and IV. I alco	. Lillinicali, IV. I	, May 14, 1000
painting	Jacob Cist	. Wilkesbarre, Pa	Oct. 28, 1808
Pigment, black, from anthracit			,,
coal	. Nathaniel Chater	New York	Oct. 5, 1839
Pills, &c., mode of counting.—Se	e Class 22.		1
Pills			
Pills	John Hawks		
Pills, anti-bilious			
Pills, anti-bilious			
Pills, anti-bilious			April 4, 1803
Pills, anti-dispeptic Pills, anti-dispeptic			
Pills, bilious		. Lyme, Conn	
Pills, bilious		. Connecticut	June 26, 1784
Pills, bilious, (Lee's Windham).	Samuel Lee	. New London, Conn	
Pills, bilious, (Lee's)		. New London, Conn	
Pill boxes	. Nathan Crary and Ed	H	1
	mund P. Crary	. Albany county, N.Y	. April 6, 1830
Pills, family	. Daniel Coit		. Oct. 5, 1808
Pills, family	. David Coit	. New York	. June 17, 1890
Pills, machine for making			July 10, 180
Pills, rheumatic			
Pills, rheumatic			
Pills, rheumatic	Ezra Deane	. Biddeford, Maine	
Pills, and tonic, and aperient Pitch, composition	John J. Oellig		
Same of the second second	- Invited 11. Shellien	. Scriba, N. Y	. Mar. 4, 1836
•	1	1	

^{*} Date of English patent Oct. 7, 1839.

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Reimped July 19, 1837.

SETTENTIONS OR DESCOVERED.	PATANCEMBS.	RÉMDENCE.	WREN MICED.	
Pitch, making	Henry Ruggles	New York	Mar. 19 ,1920	
Pitch, mixing certain matters for.	Henry Ruggles	New York	Dec. 2, 1634	
Basters, adhesive	William H. Shecut and		, , , , , , , , , , , , , , , , , , , ,	
	Horace H. Day	New York	Mar. 26, 1845	
Plaster, adhesive, spreading	B. Morison	Milton, Pa	Aug. 8, 1837	
Polishing powders, for metals	Holmes Greenwood	Providence, R. I	Jan. 28, 1818	
Potash	Edward Ryan	Vermont	Nov. 16, 1796	
Potash	William Frobisher	Massachusetts	Nov. 17, 1796	
Potash, bleaching ashes with the	Thomas Power	New York	Sept. 19, 1801	
process of	Joseph H. Ward	Randolph, Ohio	July 16, 1841	
Potash, chromate of	Isaac Tyson, jr Jos. Bellows, jr., and Ebenezer White	Baltimore, Md	Oct. 9, 1845	
			Dec. 29, 1804	
Potash, manufacturing	Thomas H. Sherman.		Feb. 2, 1831	
Potash, manufacturing	Hartsuff and French	Aurelius, N. Y	July 17, 1835	
Potash, manufacturing and leach- ing ashes*	Ephraim Parce	Lincklean, N.Y	July 20, 1831	
Potash, manufacturing and leach-	*****			
_ ing ashes	Elijah Williams		Aug. 16, 1835	
Potash, and pearl ash	Edward Crafts, jr			
Potash, and pearl ash	Jac. Latting			
Potash, and pearl ash Potash, and pearl ash, manufactur-		ļ	l	
ing	Samuel Hopkins	Vermont		
collecting	Alexander McNitt			
Potatoes, mode of preserving	Charles S. Edwards	Rushville, Ind	Dec. 31, 1845	
Preserving animal substances	Ezra Dagget and T. Kensett	New York	Jan. 19, 1825	
Preserving animal and vegetable		D 6 . 9 0	37 00 1000	
substances Preserving animal and vegetable				
substances	David Cooley	New York	Oct. 24, 1814	
Preserving apples, fruits, and roots		Wharton t'nship, Pa.		
Preserving butter	Moses Johnson	New Hampshire	June 30, 1797	
Preserving butter and eggs		Pike creek, Md		
Preserving iron from rust	M. Sorel	Paris, France	Dec. 7, 1837	
Preserving meats and fruits	Jessa Hampton	Lexington, Ky	Mar. 12, 1830	
Preserving meat by means of a va-	A. C. Allen	Houston, Texas	Sept. 12, 1846	
Preserving plants from frost	George Morris	Philadelphia, Pa	July 10, 1792	
Preserving shingles from decay	Foster Henshaw	Brookfield, Mass	Jan. 16, 1834	
Preserving timber	Charles Morgan	Point Coupee, La	April 12, 1833	
Preserving timber and other vege-		l) - - -	11p.11 13, 1000	
table products.	bert Gilbert, execu- tors of Robert Bill		Sept. 21, 1837	
Preserving timber by impregnation		Washington, D. C	June 6, 1846	
Preserving timber from worms	August Gotthilff	New York	June 14, 1837	
Preserving wood from decay Process, preparing wheat for flour-	Forrest Shepherd	Fredericksburg, Va.	Aug. 8, 1834	
ing.	M. Walker	Greensborough, N.C.	Oct. 14, 1846	
Provisions, curing meats	George A. Scherpf	New York	May 7, 1845	
Provisions, preparing	D. Lardner and J. Da-	Nam Vanla	A 0 1045	
Dulmanton	Nether Toron	New York	Aug. 9, 1845	
Pulverator	Nathan Jones	Poston Mass	July 23, 1816 Dec. 31, 1823	
Eulverizing drugs	Isaac Eddy Nathan Jones	Roston Mess	Tule 09 1014	
Pulverizing substances	E. M. Pomeroy	Boston, Mass		
Razor straps.—See Class 21.	ITL. I UMCIUY	ATOW MARKEN, COMM	Jan. 24, 1821	
Rectifying spirits	Burgess Allison	New Jersey	May 12, 1802	
Rectifying spirits	Burgess Allison	New Jersey	May 17, 1803	
Rectifying spirits	Osborn Parsons	Hudson, N. Y.	June 23, 1808	
Rectifying spirits	A. Pease and S. Beator	Enfield, Conn	July 27, 1812	
	,	,	1 7 1014	

^{*} Reissued January 93, 1834.

ENVENTIONS OR DISCOVERIES.	PATRIFFEM.	resedence.	wary dadio.
Restifying spirits by distillation	Robert Mauck	Gallipolis, Ohio	Dec. 7, 188
Rectifying spirits by steam	Jonathan Shaw	Southport, N. Y	June 21, 18
Rheumatic liniment	Abel Broom	Hudson, N. Y	Oct. 17, 1
Rifles, sharpening edge tools	Peleg Barlow	Dutchess co., N. Y.	Mar. 1, 1631
Rifles, sharpening edge tools	Peleg Barlow	Amenia, N. Y	June 13, 1831
Ripening and keeping malt liquor			•
and cider	Robert Hare	Philadelphia, Pa	Aug. 22, 1811
Rocket, liquid, combustible	James Lloyd	Adams county, Pa	May 11, 1813
Saccharine, &c., vinous fermenta-			
tion	J. J. C. Sheridan	London, Eng	June 30, 1837
Saccharifying rice and maize	Amable J. Brazier	Philadelphia, Pa	Oct. 1, 1830
Saccharifying rye and other grain		Philadelphia, Pa	Oct. 1, 1630
Salæratus, making	Edward Chamberlin.	Boston, Mass	Sept. 7, 1844
Salt apparatus	William and John D.	Deleiek M. C.	M 00 1014
Salt hailing	Hawkins	Raleigh, N. C	May 26, 1814
Salt, boiling	Osborn Parsons John J. Cabell	Pittsburg, Pa	April 4, 1820
Salt, apparatus for boiling	R. Griffin and L. Y.	Lynchburg, Va	May 28, 1813
Date boilet	Avery	Salina, N. Y	Mar. 21, 1843
Salt, coarse, manufacturing from	Avery	Oamsa, II. I	mar. 21, 1045
salt water	Aaron Earnes	Deerfield, N. Y	Sept. 25, 1831
Salt, crystallizing	Beriah Douglass	Albany, N. Y	
Salt, distillation of See Galley, C		,,	- copu. 20, 2010
Salt, extracting from sea water	Standfast Smith	Suffolk, Mass	June 12, 1806
Salt, extracting, facilitating the		, ,	
process	Standfast Smith	Suffolk, Mass	June 12, 1806
Salt, extracting, facilitating the		ŕ	•
process	Standfast Smith	Suffolk, Mass	June 12, 1806
Salt, evaporating	James Colquhoun	Charlestown, Va	Feb. 6, 1833
Salt, furnace and boilers	Samuel Anthony	Lynchburg, Va	May 29, 1813
Salt, kettles for boiling	Jer. Kendall	Fayette co., Pa	Mar. 18, 1818
Salt works, improvement in	Calvin Ginteau	Geddes, N. Y	July 23, 1842
Salt, making	Isaac Noyes	Kanawha, Va	Aug. 26, 1843
Salt, making	James S. O. Brooks	Kanawha, Va	Feb. 12, 1845
Salt, making	Isaac Noyes	Kanawha Saline, Va Salina, N. Y	April 25, 1844 July 12, 1843
Salt, manufacturing	John Sears	Massachusetts	Jan. 24, 1799
Salt, manufacturing	James Fennel	Pennsylvania	Sept. 24, 1794
Salt, manufacturing	George James	Tennessee	Nov. 16, 1796
Salt, manufacturing	Benjamin Ellicott	Pennsylvania	May 12, 1802
Salt, manufacturing	Valentine Peers	Virginia	Dec. 18, 1802
Salt, manufacturing	George Hunter	Pennsylvania	Mar. 24, 1803
Salt, manufacturing	Timothy Alden, jr	New Hampshire	May 25, 1803
Salt, manufacturing	John G. Taylor		Nov. 13, 1805
Salt, manufacturing	Timothy Green	New York	April 1, 1807
Salt, manufacturing	Benjamin Wheeler	Boston, Mass	April 17, 1809
Salt, manufacturing	Benjamin Wheeler	Boston, Mass	Mar. 28, 1810
Salt, manufacturing	Ambrose Dudley	King Wm. co., Va.	Mar. 31, 1812
Salt, manufacturing	William J. Lewis		Feb. 1, 1814
Salt, manufacturing	Thomas Hord John J. Cabell	Caroline co., Va	April 8, 1814
Salt, manufacturing	John J. Cabell	Consideration Objective	June 10, 1814
Salt, manufacturing	Peter Sarchet, sen		Sept. 27, 1814 Feb. 1, 1816
Salt, manufacturing	William J. Lewis Everard Hall	Dringger Anna Vo	
Salt, manufacturing	Edward D. Colden	New York	Dec. 14, 1822
Salt, manufacturing	Peter Cooper	New York	Dec. 24, 1824
Salt, manufacturing	Daniel Gerard	Clay co., Ky	Jan. 28, 1825
Salt, manufacturing	Calvin Guiteau	Geddes, N. Y	Sept. 9, 1825
Salt, manufacturing	Benijah Byington	Salina, N. Y	Feb. 21, 1827
Salt, manufacturing*	J. A. Teissier	Boston, Mass	Jan. 13, 1829
Salt, manufacturing	H. J. Tudor	Boston, Mass	April 11, 1829
Salt, manufacturing	Sam'l W. Williams	Elizabethtown, N. J.	Mar. 29, 1830
Salt, manufacturing	Calvin Guiteau		Oct. 25, 1832
Salt, manufacturing	Richard K. Cralle	Lynchburg, Va	Mar. 18, 18 36
•			

^{*} Reissued April 11, 1899.

myrnyhone or discoveries.	Pat ruteus.	reridance.	WHEN MOUED.
Salt, manufacturing	Charles G. Reynolds	Kanawha, Va	Mar. 3, 2006
alt, manufacturing, apparatus	Ezra Weld		May 16, 1894
alt, manufacturing, de apparatus		•	•
for boiling	Alexander Black	Barnstable, Mass	April 4, 1816
lalt, manufacturing, by application			
of escape heat from steam engines		Salina, N. Y	June 11, 1829
lalt, manufacturing, boring wells.	Richard Deering	N TI C4	May 28, 1814
salt, manufacturing common salt, manufacturing fine & coarse.	George Munger Joseph P. Rossiter	New Haven, Ct Salina, N. Y	June 23, 1818 Mar. 2, 1824
salt, manufacturing fine from coarse		Alexandria, D. C	Oct. 11, 1811
salt, manufacturing, & salt boilers		Salina, N. Y	Nov. 5, 1814
alt, manufactur'g from sea water			July 20, 1825
lalt, manufacturing by steam	Benjamin Barlow		June 25, 1825
salt, manufacturing by steam	Stephen T. Conn	Georgetown, D. C	July 12, 1826
salt, rheum, remedy for	Wm. B. Trufant		Feb. 10, 1838
Salt, supplying	Peter Cooper		
Salt vats, mode of covering	Hattel Tilley	Massachusetts	Feb. 12, 1800
Salt water, boiling, (improvement	Tina Phinner	Caine N. V	Tuna 10 1010
on Moffitt's)	Zina Phinney	Cairo, N. Y	June 19, 1812
lalt water, mode of obtaining		King & Queen co., Va Kanawha, Va	Jan. 18, 1817
salt water, pan for	Wm. Blocksom and J.	Itanawna, Ta	Juli. 10, 101.
, F	T. Fracker	Zanesville, Ohio	Mar. 23, 1829
lalt water, purifying	Seth Hunt	Syracuse, N. Y	Jan. 23, 1830
Salt water, purifying	Nils Sholtewskii Von	•	
	Shoultz	Salina, N. Y	July 29, 1837
alt works, plan for erecting	David Thacher	Tuckerton, N. J	Oct. 24, 1816
lalts, manufacturing	Borden Wilbur	Washington co., N.Y	Feb. 4, 1811
salts, manufacturing by solar eva-	Edus C Cooper	Man Vanh	Mars 16 1995
poration	Edw. C. Cooper Edw. Clark	New York New York	May 16, 1835 Dec. 4, 1828
Salts, neutral, from alkali	Benjamin Gorton	New York	Nov. 29, 1802
salts, from salts and potash	Abner Vansant	Jefferson co., Miss	Sept. 29, 1823
lalt water, separating impurities	Nebemiah P. Stanton.	Syracuse, N. Y	Aug. 20, 1845
Salting animal matters	Charles Payne	South Lambeth, Eng	Sept. 11, 1841
Saturating water with carbonic acid			
gas, or fixed air.	Jean J. Riondell	Charleston, S. C	Aug. 16, 1819
Schagliola, shining	Salvadore Pinistri	New York	June 18, 1827
leal skins, manufacturing	James Eaton	Massachusetts	Feb. 16, 1796
Sealing wax, igniting	Joseph Fatman Aaron & John Hall	Philadelphia, Pa	April 17, 1844 Dec. 31, 1817
Silk, staining and printing	T. & W. Bryan		Dec. 31, 1817 June 29, 1821
Silver, new, American	J. H. Hagenmacker	Philadelphia, Pa	Feb. 11, 1834
lilvering looking glassest	Thomas Drayton	Brighton, England	Aug. 12, 1844
sirup, apparatus for filtering and			
washing animal black, used in			
clarifying sugar	Thomas Oxnard	Cumberland, Me	Aug. 6, 1831
lirup and cane juice, concentrated	D : 10. 1		
by steam	Daniel Strobel, jr	Washington, D. C.	May 9, 1831
lates, artificial	John Street	Philadelphia, Pa	Nov. 21, 1843
oap	J. R. Vaughan and E.	Dhiladalphia Da	Mar 7 1846
loap, improvement in the manu-	H. Everman	Philadelphia, Pa	Mar. 1, 1046
facture of	Dominique F. Albert.	Manchester, G. R.	Mar. 7, 1846
oap framest	Joseph Bolton Doe	London, Eng.	Mar. 31, 1840
loap, process of manufacturing∦	Arthur Dunn	Stamford Hill, G. B.	Aug. 23, 1839
oap, making	John Nazro	Massachusetts	Jan. 6, 1797
oap, making	Daniel E. Stillwell	Utica, N. Y	July 17, 1837
oap, making by steam	B. Zoll & J. Doyle	Baltimore, Md	July 19, 1830
	John Kennedy	Baltimore, Md	Oct. 1, 1839
loap, making by ateam	Anthum During		
oap and oils, purifying §	Arthur Dunn	Rotherhithe, Eng !	Dec. 4, 1844
oap and oils, purifying §	Arthur Dunn John Hemming Harrison Gray Dyar.	Rotherhithe, Eng	Dec. 4, 1844 June 24, 1839

^{*} Reissued July 3, 1832; extended 7 years from Dec. 4, 1842, by act of Congress, of Nov. 16 1842. †England, Nov. 25, 1843. † Antedated June 14, 1838. | Antedated Aug. 24, '38. § English pat., Nov. 9, '43.

INVENTIONS OR DISCOVERIES.	PATENTERS.	residence.	WHEN ISSUED.
Soda, stannate of *	Mercer, Barnes and		
	Greenwood	Lancaster co., Eng	Aug. 12, 1840
Solutions, decoction, evaporating.	J. W. W. Gordon	Baltimore, Md	
Sores, curing	Reuben Rood		
		co., N. Y	Feb. 20, 183
Spirits, ardent, obtained from lime	James Hale	• • • • • • • • • • • • • • • • •	Nov. 22, 181
Spirits, ardent, from corn and corn	T. 400 D. 1	T	T 38 101
cobs	Jos. & Stinson Demund	New Jersey	Jan. 17, 1810
Spirits, extracting from starch wa-	Tohn Monley	Dannarlannia	Man 7 100
Spring proof	John Naylor	Pennsylvania North Salem, N. Y.	Mar. 7, 1800
Spirits, proof	Benjamin Miller William Thornton		
Spirits of turpentine and rosin,	William Thornwall	Washington, D. C.	жери. 1, 100.
mode of manufacturing	Nicholas U. Chafee	Charleston, S. C	Mar. 14, 184
Starch, elastic, clear, from wheat.	Elijah Perkins	Shrewsbury, N. J	Sept. 16, 181
Starch, potatoe	John Biddis	Pennsylvania	Mar. 22, 180
Starch, rice	W. & T. Liversidge	Dorchester, Mass	Feb. 17, 183
Starch, from wheat	Elisha Perkins	Shrewsbury, N. J	
Starch, manufacture of †	Orlando Jones		Mar. 12, 184
Starch, machine for washing and			! <u> </u>
pulverizing potatoes for	Sylvanus Richardson.	Jericho, N. Y	Jan. 9, 18 3
Stone, artificial	Rob. McCay, Daniel		
	McKenzie, and Jas.		
	Woodhull	Caledonia, N. Y	Jan. 16, 1822
Stone, artificial coffins.—See Class	22.		
Straw bonnets.—See Class 3.			
Straw flats and bonnets, machine	Flores Coulth	Franklin Mass	Man 20 100
for cleaning	Eleazer Smith	Franklin, Mass	Mar. 30, 180
Straw, whitening, Leghorn and	Henrietta Cooper	Washington t'p, Pa.	Nov. 12, 182
gimp	Francis Hoard	Demerara, W. I	May 30, 183
Sugar boiler	William Graham	St. Charles, La	Mar. 10, 184
Sugar boilers	Abraham Hager	Donaldsonville, La.	Mar. 9, 184
Sugar boilers	Francis Duplessis	Plaquemines, La	Dec. 16, 184
Sugar, boiling, &c., under a vacuum		New York	Oct. 27, 183
Sugar candy	H. & G. Garrison	Newburgh, N. Y	April 10, 184
Sugar candy, making	Lawrence Astolfi	Philadelphia, Pa	Nov. 28, 181
Sugar caking	Uriel Smith	Sandisfield, Mass	Jan. 21, 183
Sugar cane, machine for grinding.	John J. Breithler	New Orleans, La	June 13, 1818
Sugar, claying, moulds		Philadelphia, Pa	Mar. 13, 1793
Hogar, cleaning	Joseph Hurd	Stoneham, Mass	Oct. 3, 184
Sugar, damper, furnace	Joshua Jordon	Boston, Mass	Dec. 27, 183
Sugar, &c., filters for	John Watson	Lancaster, Eng., now	
		in Elizabethtown,	Ton 21 104
Sugar making	J. De Bretton, sen	New Jersey New Orleans, La	Jan. 31, 184 May 24, 184
Sugar making	Ethan Campbell	New York	May 24, 184 Oct. 25, 184
Sugar making			
	ass'ee of Chs. Louis	La	July 10, 184
	Derosne	Paris, France	,,
Sugar making, improvement in		New Orleans, La	Dec. 10, 184
Sugar, making and refining	Antoine Boucherie	Philadelphia, Pa	Jan. 8, 186
Sugar, making from wheat, rye, &c		Wayne co., Ind	May 25, 181
Sugar, manufacturing	Henry Fry	Harrisburg, N. Y.	April 6, 182
Sogar, manufacturing	William A. Archbald.	New York	Aug. 16, 183
Sugar, manufacturing	Lemuel W. Wright	London, Eng	Aug. 25, 183
Sogar, manufacturing	Guy Duplantier	E. Baton Rouge, La.	
Sugar, manufacturing		Parish Ascension, La	
Sogar, manufacturing from beets.		Boston, Mass	July 26, 183
Sugar, manufacturing from cane		Poston More	Sant 10 100
juice	Eb. A. Lester	Boston, Mass	Sept. 10, 182
Sugar, manufacturing from cane	Wm A Amhhald	New Vork	April 10 199
juice	Wm. A. Archbald		
andri mainterate oi mon ance	Conge renomen	-	1000 01 104
* English patent, July 8, 1846.		sted April 13, 1840.	

INVENTIONS OR DISCOVERIES.	1	RESIDENCE.	WHEN ISOUED
	PATENTEES.	RESIDENCE.	WHER ISSUED
Sugar mill.—See Class 13.			
Sugar, moulds for loaf	Charles Duneau	Williamsburg, N. Y.	
Sugar, moulds for refining	Mervin Merrill	New York	Oct. 25, 1810
Sugar pan		New York, N. Y	May 16, 1840
Sugar, raw or brown, from the		N Vl.	Amril 10 100
juice of the cane	William A. Archbald.	New York	April 19, 1830
Sugar, raw or brown, from the juice of the cane, &c., in			
wooden vessels	William A. Archbald.	New York	April 19, 1830
Sugar, refining	Bernard E. Verjon	Washington, D. C.	
Sugar, refining, double boiler and		wasningwii, D. C.	11pm 20, 1014
other apparatus	William A. Archbald.	New York	May 29, 1828
Sugar, refining, filtering apparatus		New York	
Sugar works	Sam'l V. Merrick and		,,
•	J. H. Towne, ass'ees		İ
	of N. Riellieux	New Orleans, La	Aug. 26, 1843
Sulphate of alumine, process of	Rudolph Boninger and		_
manufacturing.*	G. Boninger, ass'ees		Jan. 23, 1841
	of Max. Jos. Funcke	Eichelskamp, Prus	
Sulphur, sublimating	George B. Dexter	Boston, Mass	Oct. 9, 1806
Sulphur, sublimating	George Robinson	Elizabethtown, N. J.	Nov. 16, 1812
Sumach, extracting essence of	Nathaniel Ladd	New Hampshire	Feb. 12, 1800
Sumach, manufacturing	Roswell Saltonstall	New London, Ct	Feb. 28, 1793
Sumach, manufacturing	Roswell Saltonstall	New London, Ct	May 1, 1793
Sumach, manufacturing	Jos. Hillard	Connecticut	May 12, 1796
Sumach, manufacturing	Comfort Hoyt, jr	Connecticut	April 7, 1800
Surgical operations	W. T. G. Morton, as'e of C. T. Jackson	Roston Mass	Jan. 26, 1816
Syphilis, cure of		Boston, Mass Philadelphia, Pa	
of	Nicholas W. Badeau.		
Tallow, &c., cutting	Zabina Ellis	Kingston, Pa	
Tallow, pressure of elaine from.—	See Press, Class 12.		,
Tallow, preparing for manufacture			
of candlest	John Kirkman	New York	Oct. 31, 1840
Tallow, rendering	L. Montrop	Baltimore, Md	June 27, 1842
Tallow, or stahrein, composition.	Carl G. Ritter	Cincinnati, Ohio	Feb. 18, 1834
Tannin, (improvement on Des-			
_ mond's mode of obtaining	John Giles	Guilford, Vt	April 11, 1825
Tannin, extracting	John Biddis and Thos.		
	Bedwell	Philadelphia, Pa	
Tannin, extracting	William Knapp	Milford, N. Y	April 5, 1823
Tannin, extracting	D. Roe, C. F. Kellogg,	a a	0.1000
The service of the se	and J. W. Gazley	Cincinnati, Ohio	Oct. 3, 1823
Tannin, extracting	Augustus A. Hayes.	Roxbury, Mass	July 12, 1838
Tannin, extracting by steam	William Coburn William Lowber	Gardner, Me	Nov. 1, 1828-
Tannin, extracting by water press Tanning.—See Class 16.	Wilham Lowber	Philadelphia, Pa	Mar. 15, 1825
Tansy, essence	Israel Newton	Norwich, Vt	Feb. 28, 1806
Tincture, for curing corns	Elisha Smith	N. Brunswick, N. J.	Jan. 20, 1826
Tobacco, preparing cifewing	Eben Goodwin	New York, N. Y	Feb. 16, 1843
Tobacco, renovating	Enoch Huse	Newburyport, Mass.	July 22, 1844
Toothache, relieving by steam	Lemuel Merritt and S.	,	,,
		New York	Dec. 27, 1815
Toothache, remedy.	Jos. Utlev		Nov. 5, 1817
Toothache, specific.	Samuel Pennington	Mount Pleasant, O	July 30, 1829
Turpentine, extracting by steam	Hez. Kelly	Brooklyn, N. Y	May 17, 1816
Turpentine, spirits, extracting	I. Jennings	New York	July 1, 1836
Turpentine, oil of, process of rec-	_	1	
tifying, which he calls camphine	Aug. V. H. Webb	New York	Feb. 19, 1839
Varnish, for furniture	Marcus Curtis	Troy, N. Y	
Varnish, gum elastic			April 29, 1813
Varnish, for leather.	John David	Philadelphia, Pa	May 5, 1810
Vegetable clixir, for cure of bron-	Dates Faulkner	Doobseille De	Comt 09 1949
chitis		AUCKVIIIE, Pa	oept. 23, 1040
t Antodoted Way 18 1		A	

* Antedated Nov. 16, 1839.

† Antedated July 2, 1840.



INVENTIONS OR DISCOVERIES.	Patrntres.	regidence.	WREN MITED.
Vegetable extracts, making	Benjamin Brandreth		
Vegetable wash for the lungs	George Rogers	Northampton, Mass.	
Verdigris, manufacturing	George F. Hagner	Philadelphia, Pa	
Vermifuge, preparing	Jos. Lehman	Philadelphia, Pa	Aug. 11, 1807
Vinegar and cider, from offals of			•
distilleries	William Richardson	Kingston, N. Y	Sept. 26, 1816
Vinegar, manufacturing	Edward Clark	Saugerties, N. Y	
Vinegar, mode of making	Frederick N. Boden	New Lancaster, Ohio	
Vinous fermentation*	Charles C. Edday	Benton, Miss	
Vitriol, oil of	Rd. Marden	New York	
Vitriolic test for bank bills	Abel Brewster	Hartford, Ct	
Washing machine, for distilleries.		Rochester, N. Y	
White and whiting, Paris	Peter Ferris	Greenwich, Ct	
White lead, manufacturing	Smith Gardner		
Wine, from cider	Henry Seabolt		
Wine, from cider	Ezra B. Corkings		
Wine, from cider		Hempfield, Pa	
Worms, specific for		Morgantown, Pa	

^{*} Antedated March 4, 1842; additional improvement, Nov. 28, 1842.

CLASS No. V.

CALORIFIC.

Comprising Lamps, Fire-places, Stoves, Grates, Furnaces for heating Buildings, Cooking Apparatus,

Preparation of Fuel, &c.

LIST OF PATENTS.

CLASS V.—CALORIFIC, comprising Lamps, Fire-places, Stoves, Grates, Furnaces for heating Buildings, Cooking Apparatus, Preparation of Fuel, &c.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Air back, for chimneys	Joel Root		Feb. 13, 1812
Air draught, subignis	Samuel Randall		Mar. 12, 1811
Air flue, descending	James Macomber		Nov. 19, 1811
Air heater, cylindrical	Charles Fowler	Hartford, Conn	July 10, 1829
furnaces	Joseph Jones	York, Pa	Dec. 10, 1838
Air, to wood and coal stoves* Asbestos, use and application of,	Frederick A. Fickhardt	Easton, Pa	Sept. 25, 1837
to stoves, grates, crucibles, &c	John Scott	Philadelphia, Pa	Nov. 26, 1835
Baker, economical	Philip Wilcox	Springfield, Mass	Feb. 18, 1829
Baker, metal	Josiah St. John	Hudson, N. Y	Sept. 30, 1834
Baker, reflecting tin	William Prescott	Boston, Mass	May 24, 1832
Baker, reflecting	E. B. Olmstead	Binghampton, N. Y.	Jan. 20, 1836
flecting	Samuel Hasey	Rensselaerville, N.Y.	
Baker, and roaster, economical	Philip Wilcox	Springfield, Mass	Sept. 28, 1831
Baker, steam	Philo F. Wilcox	Springfield, Mass	Sept. 3, 1834
Baker, tin	Gordin Williston	New London, Conn.	
Baker, tin	Nathaniel D. Whiten. John T. Davy	New York	Oct. 10, 1835 Feb. 12, 1845
Bakers	William Tainter & H.	Troy, N. Y	
Baking, and cooking	S. Orton	Porter co., Indiana Medford, Mass	Aug. 9, 1845
Baking, iron	Elijah Skinner	Sandwich, N. H	
Binnacle lights.	Winslow Lewis	Boston, Mass	
Binnacle lights.	Joseph F. Smith	Baltimore, Md	June 1, 1825
Binnacle lights	William Lawrence	Meriden, Conn	
Blower, coal grate	R. Fuller & T. Thomas		
Blower, spiral cone	Benjamin Brundred	Oldham, N. J	
Boiler	Benjamin Platt	Connecticut	April 27, 1803
Boiler	Gab. N. Phillips	Goshen, N. Y	June 28, 1814
Boiler, for anthracite coal	John Barker	Baltimore, Md	
Boiler, box	John Morris	New Haven, Ct	Oct. 3, 1812
Boiler, circular	Jona. Sizer	New London, Conn.	
Boiler, constructing	Jos. Hurd, jr.	Boston, Mass	Nov. 10, 1829
Boiler, cylindrical	Philo M. Hackley	Hudson, N. Y	Oct. 9, 1813
Boiler for heating liquids	Warren Nims Samuel Bolton	Fort Ann, N. Y	
Boiler, or heater, pipe or grate Boilers for heating water, &c	Daniel L. Pickard	Philadelphia, Pa Hartland, N. Y	
Boiler, kitchen	J. and W. C. Bailey	Farmington, Me	
Boiler, portable	Anson W. Spencer	Cazenovia, N. Y	June 19, 1835
Boiler, setting	Eben. Jenks	Portland, Maine	June 1, 1805
Boilers, steam for cooking and eva- porators.	Dudley Marvin	New York N. Y.	-
Boiler or steamer, construction of.	Salmon C. Riley	New York	Oct. 11, 1841
Boiler, steam, stoves, &c	John James Giraud	Baltimore, Md	Mar. 8, 1830
Boiler, stone.—See Class 4.	Tana Punio Grandi		
Boiler, universal	Andrew Glendenning.	Butler county, Pa	Sept. 25, 1823
Boiler, upright stove	Thomas E. Barker	Greene co., N. Y	Feb. 19, 1819
Boiling	Caleb Shepard	Cincinnatus, N. Y.	Oct. 4, 1817
Boiling See Class 4.	- 1	·	•
Boiling potatoes, &c	riosea E. Pouer	Omego, 14. I	1404. %U, 1010 .

		 	
INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	when issued.
Boiling water in vote or cistame	Jason L. Burdick	Norwich, N. Y	Tuly 91 1946
Boiling water in vats or cisterns Burners, anthracite coal	James N. Olney	Providence, R. I	July 31, 1846 Dec. 26, 1833
		Nashville, Tenn	Dec. 18, 183
Burner for pine-knots, &c	John Price	Poston Mass	Dec. 10, 1036
Burners, water	John L. Sullivan	Boston, Mass	Dec. 11, 1816
Coheces	Samuel Morey	Oxford, N. H	
Cabooses	George Youle	New York	
Cabooses	George Youle	New York	
Cabooses	John Bouis	Baltimore, Md	Dec. 31, 1012
Cabooses, adapted to distil salt wa-	Michael Bankan	Nontan Bassa	A 99 1041
Change for eaching	Michael Rocher	Nantes, France	Aug. 28, 1841
Cabooses, for cooking	John Youle	New York	Aug. 25, 1795
Cabooses, and cooking stove	George Youle	New York	April 1, 1807
Cabooses, for distilling fresh from	a. 5	37 37 1	
salt water	Simeon Rouse	New York	
Cabooses, iron	William Ashbridge	Pennsylvania	June 28, 1803
Cabooses, portable, kitchen, or			l <u> </u>
stove	James Truman	Philadelphia, Pa	Dec. 3, 1811
Cabooses, or stove, for cooking or			
distilling	George Youle	New York	May 21, 1806
Cabooses, ships'	James Wilson	New York	Aug. 17, 1843
Cabooses, ships, and other work-			• •
ing stoves	Loftis Wood	New York	Nov. 26, 1846
Caldron and furnace combined	Jordon L. Mott	New York	Dec. 1, 1840
Candlestick	Benjamin Dearborn	Boston, Mass	Oct. 29, 1804
Candlestick, holder, economical	Peter Ward and B. Al-	,	,,
,,	lison	Philadelphia, Pa	July 20, 1812
Candlestick, pewter	Joshua Witherle	Boston, Mass	Oct. 24, 1817
Candlestick, improvement in	William Church	Citizen United States,	
,,		now in England	Mar. 28, 1840
Chandelier, of crystalized salt	Fred. B. Merrill	Buffalo, N. Y	June 13, 1829
Chandelier, or hanging lamp*	Wm. Lawrence	Meriden, Conn	
Charcoal burner, conical arch	Ezra B. Gilbert	Euphrata, N. Y	Nov. 7, 1835
Charcoal, for gunpowder	Fielder Parker	Pr. George's co., Md	
Charcoal, manufacturing	Isaac Doolittle	Bennington, Vt	
Charcoal, from peat	Charles Fales	Worcester, Mass	Fab. 11 1907
Chimneys	Richard Stuart	Maryland	Feb 94 1797
		may yauu	reo. 24, 1131
Chimneys	David Cooley and Gab.	New York	Aug 96 1908
Chimneys	N. Philips		
	Giles Gridley	Newburyport, Mass.	Inna 96 1906
Chimneys	Lewis Lecesne	Philadelphia, Pa	Tune 9 1996
Chimneys	A. G. D. Tuthill	Utica, N. Y	June 0, 1030
Chimney apparatus to prevent	Tananh III.ud :-	Standban Mass	·A
smoking	Joseph Hurd, jr	Stonenam, Mass	April 24, 1041
Chimneys, building, to prevent	Tarant Cin .	D	37
smoking	Joseph Gilbert	Frease's p. o., Ohio.	NOV. 13, 1844
Chimneys, cap for increasing the		D	
draught in furnaces	James P. Espy	Philadelphia, Pa	June 29, 1833
Chimneys, cap for preventing emis-			
sion of sparks	Edward A. G. Young.	Newcastle, Del	July 22, 18 33
Chimneys, caps for regulating			
draught of	Joseph Hurd	Stoneham, Mass	Dec. 12, 1844
Chimney caps, constructing, &c	Bernard Kenny	Northfield, Mass	July 22, 1839
Chimney cape	Jordon L. Mott	New York, N. Y	Dec. 17, 1842
Chimney caps	Jordan L. Mou, ass'ee	-	
•	of Thomas Ewbank.	New York, N. Y	Dec. 17, 1842
Chimneys, cast iron copings	Charles Neer	Waterford, N. Y	Sept. 11, 1829
Chimneys, cleaning	John Bruff	Baltimore, Md	Dec. 16, 1814
Chimneys, cleaning	Samuel Dow		
Chimneys, cleaning	Thomas Hinkley		Oct. 7, 1831
Chimmeys, cleaning	James Slaughter		Nov. 4, 1846
Chimaeys, constructing	Oliver Richardson		April 18, 1810
Chimneys, constructing	Henry Antes		
Chimney cowlst	Stephen M. Allen		
Chimney cowls	Palmer Summer	New York N. Y	Feb. 20 1949
		A VAM9, 410 4 600	
4 Dalama 1 Mar. 1 40	1004 1 4 3 3144 1 1		

^{*} Reisseed March 10, 1894. † Additional improvement July 19, 1842.

ANYMOTIONS OR DESCOURAGES.	PATHROUPS.	remerce.	WRIN MARK.
Chimneys, crank and wheel damp-	Jas. Reilly and John		
ers for.	Flannagan	Waynesborough,Pa.	Mar. 10, 1827
Chimneys, oure for smoky	Augustus Haman	Washington, D. C	July 22, 1845
Chimneys, cure for smoky	John Plant	Washington, D. C	Nov. 21, 1845
Chimneys, draught, regulating	Taka Dakan	T D.	0.4 00 1001
valve, for	John Baker	Lancaster, Pa	Oct. 28, 1831
Chimneys, draught in	Elijah Skinner George H. Crosby	Sandwich, N. H New Haven, Ohio	April 3, 1834 Jan. 28, 1840
Chimneys, for the draught of	Archibald Wieting	Middletown, Pa	
Chimneys and fire places	Adam Spohn	Comrio, Pa	
Chimneys and fire places	Eben Rand	Hudson, N. Y	Mar. 27, 1816
Chimneys and fire places	Obed Delano	Utica, N. Y	Mar. 3, 1821
Chimneys and fire places	Lewis Kingsbury		
Chimneys and fire places	Moses Perin	Connersville, Ind	
Chimneys, ovens, &c	Elihu Smith	Ithaca, N. Y	July 1, 1886
Chimneys, preventing smoking	Frederick Crey Samuel Chase	Baltimore, Md Williamsport, Pa	
Chimneys, preventing smoking Chimneys, preventing smoking	A. H. Read	Montrose, Pa	
Chimneys, preventing smoking	Levi Silliman	Albany, N. Y	July 20, 1831
Chimneys, preventing smoking, &			
extinguishing them	J. Sullivan	Washington, D. C	April 27, 1832
Chimneys, preventing smoky	David Bain	Baltimore, Md	Feb. 5, 1833
Chimneys, preventing smoky	Henry Pollock	Baltimore, Md	
Chimneys, preventing smoky	Urban B. A. Lange	Philadelphia, Pa	Oct. 14, 1834
Chimneys, protecting against water	John J. Thomas	Charleston, S. C	Oct. 2, 1504
Chimneys, scraper	Matthew Benson Louis D. Detroisment.	Cincinnati, Ohio New York	May 15, 1823
Chimneys, stoves, and fire places. Chimneys, sweeping	John Hunt	Baltimore, Md	April 5, 1817 July 12, 1817
Chimneys, sweeping	Francis A. Everard	New York	May 28, 1818
Chimneys, sweeping	Aaron Lane	New York	Sept. 22, 1818
Chimneys, sweeping	William Hall	New York	Dec. 19, 1818
Chimneys, sweeping	Samuel S. Edmonson.	New York	Nov. 8, 1820
Chimneys, sweeping	John W. Moore	Washington, D. C.	Aug. 8, 1821
Chimney tops, improvement in	William S. Burch	Washington, D. C.	July 14, 1846
Chimneys, ventiduct, topping Cietern, boiling	Joshua Ennis Timothy Kirk	Brooklyn, N. Y Pennsylvania	
Coal, anthracite, cracking	Jonathan S. Hubbel	New York	
Goal, anthracite, combustion of	Paul Chase	New York	
Coal, anthracite, combustion of	Phineas Davis	Baltimore, Md	
Coal, breaking and screening*	Joseph Battin	Philadelphia, Pa	Oct. 6, 1943
Coal, breaking and screening	Hopkins Thomas	Beaver Meadow, Pa.	
Coal, breaking	Joseph Battin	Philadelphia, Pa	
Coal, mode of conveying	John G. Brant	Cumberland, Md	
Coal sifters	Horace Wells John P. Doane and Wil-	Hartford, Conn	Dec. 31, 1839
Com sincers	liam H. Denny	New York, N. Y	Nov. 28, 1842
Coal sifter, revolving	Thomas Borbridge and	1100 1012, 211 1111	
-	Anson Martin	Ringston t'nship, Pa.	Dec. 30, 1826
Coffee extractor	Lewis Martelly	New York	Sept. 80, 1825
Coffee roaster	Peregrine Williamson.	Baltimore, Md	Mar. 20, 1820
Coffee roaster	Peregrine Williamson.	Baltimore, Md	June 18, 1825
Coffee roaster	Amos Ransom	Hartford, Conn	
Goffee roaster	Abel Stillman Moses Issacs	Poland, N. Y	Dec. 98, 1840 April 7, 1831
Cooking apparatus	John Morris	Philadelphia, Pa New Haven, Conn	Oct. 3, 1812
Cooking apparatus	David Westerfield	New York	Mar. 24, 1827
Cooking apparatus	Ez Bennett	Kingsbury, N. Y	Feb. 15, 1828
Cooking, apparatus for	Joshua Grime	Beekmantown, N. Y.	
Cooking apparatus	Joseph Jennings	New York	May 14, 1830
Cooking apparatus	Samuel D. Day and		_
(C-1):	William T. Day	Westfield, Mass	June 8, 1832
Cooking apparatus	James Bennet	Brutus, N. Y	July 25, 1832
Cooking apparatus	William W. Parrott	Boston, Mass	Mar. 99, 1832
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^{*} Additional improvement, Jan. 20, 1844.

mpuntions or discoveries.	Patenters.	reamphon.	waen magno.
Cooking apparatus, and house			
warmer	Richard Johnson	Baltimore, Md	Nov. 19, 1833
Cooking apparatus, steam	John Bouis	Baltimore, Md	Jan. 6, 1812
Cooking, applying heat	Peter E. Sanburn	Troy, N. Y	June 11, 1829
Cooking, applying the reflection of			·
caloric	John Burch	Jefferson co., N. Y	April 22, 1835
Cooking, and boiling	Thomas Passmore	Philadelphia, Pa	Dec. 23, 1796
Cooking, fire apparatus for	Daniel Stephens	Kitland, Ohio	Oct. 18, 1837
Cooking, fixtures for anthracite coal	Jac. F. Walters	Philadelphia, Pa	June 8, 1827
Cooking, generating steam for	Hardin Branch	New York	April 12, 1833
Cooking, generating steam for	John Bouis Frederick Butler	Baltimore, Md	Sept. 21, 1837 Aug. 22, 1800
Cooking machine	John J. Hess	Philadelphia, Pa	Mar. 19, 1829
Cooking machine Cooking machine, for families	John Seger	New York	Nov. 14, 1815
Cooking machine, portable	David Asher	Philadelphia. Pa	Feb. 18, 1825
Cooking, ranges	Thomas B. Smith	New York	Aug. 27, 1835
Cooking, steam vessel for	John Morris	Derby, Conn	Oct. 28, 1837
Drum.—See Class 2.		• •	
Drums for heating apartments	William Frazier	Brooklyn, N. Y	April 30, 1810
Drying flour	John Ballantine and		
	Adam Clark	Zanesville, Ohio	Mar. 4, 1839
Drying grain	Richard Else	Middlesex co., Engl.	Aug. 14, 1839
Extinguisher, and chimney regu-	Daniel Shaamalain	Dhiladalahia Da	Mar. 27, 1812
Extinguisher, and chimney sweeper	Daniel Shoemaker Ephraim Paine	Philadelphia, Pa Philadelphia, Pa	Dec. 11, 1817
Extinguisher, fire and chimney	Daniel Berrien	Philadelphia, Pa	Aug. 21, 1823
Fenders, fire	Elisha Ruggles	Rochester, N. Y	Feb. 27, 1821
Fenders, for fire places	Elijah Skinner	Sandwich, N. H	April 19, 1829
Fenders, for fire places	Matthew Benson	Cincinnati, Ohio	May 19, 1823
Fenders, fire shaping	Thomas Thomas and		
	Robert Fuller	New York	Nov. 19, 1832
Fire, alarm	James Dinsmore	Milburn, Maine	May 14, 1833
Fire, alarm	B. Seymour and J.	ITtion N V	Annil 9 1935
Fire, alarm, self-acting	Whipple	Utica, N. Y New Market, N. H.	April 2, 1835 Aug. 15, 1831
Fire, cavern	Abraham Quincy	Boston, Mass	Mar. 20, 1811
Fire, draught	Robert Mayo	Washington, D. C.	Sept. 9, 1835
Fire, extinguishing		New York	Mar. 31, 1794
Fire, extinguishing	Samuel P. Lord, jr	Connecticut	Mar. 10, 1804
Fire, extinguishing	Isaac Clowes	Norfolk, Va	July 2, 1836
Fire fenders	Morgan Morgan, jr		July 22, 1844
Fire, hearth, range, or galley		New York	Mar. 19, 1819
Firemen, machine for protecting		New York	Mar. 29, 1821
Fire-place		Pennsylvania	Nov. 16, 1797
Fire-place	Ebenezer Whiting	Newburyport, Mass. Gr. Barrington, Mass	Feb. 14, 1806 June 18, 1816
Fire-place			
Fire-place		Montgomery co.N.Y	
Fire-place		. Montgomery co.N.Y	
Fire-place		. Montgomery co.N.Y	
Fire-place			
Fire-place		. Northampton, Mass	Jan. 25, 1817
Fire-place			Aug. 16, 181
Fire-place		Colebrook, Conn	Sept. 2, 1810
Fire-place	Eliphalet Nott	. Schenectady, N. Y Philadelphia, Pa	
Fire-place		Catakill, N. Y	Aug. 8, 189
Fire-place			
Fire-place	Stephen Spalding	. Colchester, Conn	April 11, 182
Fire-place	William Hoyt	. Brookville, Ind	June 3, 182
Fire-place	. Ebenezer Lester	. Killingsworth, Conn	. June 21, 183
Fire-place	Horace Saxton	Eden, N. Y	. July 8, 183
Fire place	.) Bean and Skinner	. Sandwich, Conn	. June 12, 183
Fire-place		1	. Och 6, 183

^{*} Reissued March 19, 1836.

Fire-place Fire-place Fire-place Fire-place Fire-place Fire-place, and andirons Fire-place, and andirons Fire-place, building and altering, for burning coal Fire-place, cast iron Fire-place, and chimney funneled Fire-place, and chimney stack in buildings Fire-place to prevent smoking Fire-place, and chimney, stoves,	William Burgess. William R. Prescott. Reuben Buck. Daniel Hemingway. Sarah Hammond. John Sweet. Artemas Terrell. Ansel Hayward. Samuel Morey. John C. Brush. Cyrus Blood. Reuben Bacon and Elijah Harris. Ansel Gerrish.	Middleboro', Mass Hallowell, Maine Acton, Maine Leesburg, Ky Baltimore, Md Berkshire, Mass Easton, Mass Philadelphia, Pa Washington, D. C Washington, Md Boston, Mass	June 25, 1839 Feb. 26, 1811 Oct. 25, 1832 Sept. 25, 1834 Jan. 18, 1813 Jan. 28, 1814 April 7, 1825
Fire-place Fire-place Fire-place Fire-place Fire-place, and andirons Fire-place, building and altering, for burning coal Fire-place, cast iron Fire-place, cand chimney Fire-place, and chimney stack in buildings Fire-place to prevent smoking	William R. Prescott Reuben Buck Daniel Hemingway Sarah Hammond John Sweet Artemas Terrell Ansel Hayward Samuel Morey John C. Brush Cyrus Blood Reuben Bacon and Elijah Harris	Hallowell, Manne	July 1, 1830 Nov. 9, 1844 June 25, 1839 Feb. 26, 1811 Oct. 25, 1832 Sept. 25, 1834 Jan. 18, 1813 Jan. 28, 1814 April 7, 1825
Fire-places. Fire-places. Fire-places. Fire-place, and andirons. Fire-place, building and altering, for burning coal. Fire-place, cast iron. Fire-place, and chimney. Fire-place, chimney. Fire-place, and chimney. Fire-place, and chimney funneled Fire-place, and chimney stack in buildings. Fire-place to prevent smoking.	Reuben Buck. Daniel Hemingway. Sarah Hammond. John Sweet. Artemas Terrell. Ansel Hayward. Samuel Morey. John C. Brush. Cyrus Blood. Reuben Bacon and Elijah Harris.	Acton, Maine Leesburg, Ky Baltimore, Md Berkshire, Mass Boston, Mass Easton, Mass Philadelphia, Pa Washington, D. C Washington, Md	July 1, 1830 Nov. 9, 1844 June 25, 1839 Feb. 26, 1811 Oct. 25, 1832 Sept. 25, 1834 Jan. 18, 1813 Jan. 28, 1814 April 7, 1825
Fire-places. Fire-place, and andirons. Fire-place, and andirons. Fire-place, building and altering, for burning coal. Fire-place, cast iron. Fire-place, and chimney. Fire-place, and chimney. Fire-place, and chimney. Fire-place, and chimney funneled fire-place, and chimney stack in buildings. Fire-place to prevent smoking.	Daniel Hemingway Sarah Hammond John Sweet Artemas Terrell. Ansel Hayward Samuel Morey John C. Brush Cyrus Blood Reuben Bacon and Elijah Harris.	Leesburg, Ky	Nov. 9, 1844 June 25, 1839 Feb. 26, 1811 Oct. 25, 1832 Sept. 25, 1834 Jan. 18, 1813 Jan. 28, 1814 April 7, 1825
Fire-place, and andirons. Fire-place, and andirons. Fire-place, building and altering, for burning coal. Fire-place, cast iron. Fire-place, and chimney. Fire-place, and chimney. Fire-place, and chimney, funneled fire-place, and chimney stack in buildings.	Sarah Hammond John Sweet Artemas Terrell Ansel Hayward Samuel Morey John C. Brush Cyrus Blood Reuben Bacon and Elijah Harris.	Baltimore, Md Berkshire, Mass Boston, Mass Easton, Mass Philadelphia, Pa Washington, D. C Washington, Md	June 25, 1833 Feb. 26, 1811 Oct. 25, 1832 Sept. 25, 1834 Jan. 18, 1813 Jan. 28, 1814 April 7, 1825
Fire-place, and andirons. Fire-place, building and altering, for burning coal. Fire-place, cast iron. Fire-place, cast iron. Fire-place, and chimney. Fire-place, and chimney. Fire-place, and chimney. Fire-place, and chimney, funneled Fire-place, and chimney stack in buildings.	John Sweet	Berkshire, Mass Boston, Mass Easton, Mass Philadelphia, Pa Washington, D. C Washington, Md	Feb. 26, 1811 Oct. 25, 1832 Sept. 25, 1834 Jan. 18, 1814 Jan. 28, 1814 April 7, 1825
Fire-place, building and altering, for burning coal. Fire-place, cast iron. Fire-place, and chimney. Fire-place, chimney. Fire-place, and chimney. Fire-place, and chimney. Fire-place, and chimney, funneled Fire-place, and chimney stack in buildings. Fire-place to prevent smoking.	Artemas Terrell	Boston, Mass Easton, Mass Philadelphia, Pa Washington, D. C Washington, Md	Oct. 25, 1832 Sept. 25, 1834 Jan. 18, 1813 Jan. 28, 1814 April 7, 1825
for burning coal. Fire-place, cast iron. Fire-place, and chimney. Fire-place, chimney. Fire-place, and chimney. Fire-place, and chimney. Fire-place, and chimney, funneled Fire-place, and chimney stack in buildings.	Ansel Hayward Samuel Morey John C. Brush Cyrus Blood Reuben Bacon and Elijah Harris.	Easton, Mass Philadelphia, Pa Washington, D. C Washington, Md	Jan. 18, 1813 Jan. 28, 1814 April 7, 1825
Fire-place, cast iron Fire-place, and chimney Fire-place, and chimney Fire-place, and chimney Fire-place, and chimney, funneled Fire-place, and chimney stack in buildings Fire-place to prevent smoking	Ansel Hayward Samuel Morey John C. Brush Cyrus Blood Reuben Bacon and Elijah Harris.	Easton, Mass Philadelphia, Pa Washington, D. C Washington, Md	Jan. 18, 1813 Jan. 28, 1814 April 7, 1825
Fire-place, and chimney Fire-place, chimney Fire-place, and chimney Fire-place, and chimney, funneled Fire-place, and chimney stack in buildings Fire-place to prevent smoking	Samuel Morey John C. Brush Cyrus Blood Reuben Bacon and Elijah Harris	Philadelphia, Pa Washington, D. C Washington, Md	Jan. 18, 1813 Jan. 28, 1814 April 7, 1825
Fire-place, chimney Fire-place, and chimney Fire-place, and chimney, funneled Fire-place, and chimney stack in buildings Fire-place to prevent smoking	John C. Brush Cyrus Blood Reuben Bacon and Eli- jah Harris	Washington, D. C Washington, Md	Jan. 28, 1814 April 7, 1825
Fire-place, and chimney Fire-place, and chimney, funneled Fire-place, and chimney stack in buildings Fire-place to prevent smoking	Cyrus Blood Reuben Bacon and Eli- jah Harris	Washington, Md	April 7, 1825
Fire-place, and chimney Fire-place, and chimney, funneled fire-place, and chimney stack in buildings Fire-place to prevent smoking	Reuben Bacon and Eli- jah Harris		
Fire-place, and chimney, funneled Fire-place, and chimney stack in buildings Fire-place to prevent smoking	jah Harris	Roston Mass	
Fire-place, and chimney stack in buildings			April 8, 1835
Fire-place, and chimney stack in buildings		Shapleigh, Maine	
buildings Fire-place to prevent smoking		,	,
Fire-place to prevent smoking	Henry R. Sawyer	New York, N. Y	Mar. 26, 1841
Fire-place and chimner stame	Homer Roberts	Delhi, N. Y	April 30, 1840
proces, and cillillier, 500 ves,	•.		
&c., for burning coal	Ormsby M. Mitchell	Cincinnati, Ohio	Mar. 8, 1834
Fire-place, close	Horatio G. Spafford	Hudson, N. Y	May 3, 1805
Fire-place, close, and open	John C. Brush	Washington, D. C.	Aug. 19, 1818
Fire-place, Columbia	Robert Hetterick	Hudson, N. Y Washington, D. C Winchester, Va Howard's Valley, Ct.	June 30, 1803
Fire-place, cooking and baking	John C. Howard	Howard's Valley Ct.	Oct. 27, 1835
Fire-place, defiance	Erastus Bartholomew	220 11 22 2 7 22 23 7 2 2	300 21, 1000
•	and W. Church	Boston, Mass	Aug. 19, 1815
Fire-place, double draught	Talmadge Ross	Boston, Mass New Jersey	Jan. 23 1804
Fire-place, doric	John Pierpont	Boston, Mass	Jan. 8 1830
Fire-place, with flat funnel	Abraham Fisher	Boston, Mass Hudson, N. Y	Feb. 19, 1837
Fire-place, fluted back	Eli Mix	New Haven, Conn	April 25, 1812
Fire-place, for grates	Joseph Snyder	Philadelphia Pa	Tune 10 1025
Fire-place, and grate	Charles Lane	Hingham, Mass Fairfield, Conn	Dec. 15, 1835
Fire-place, and grate, open	Roger M. Sherman	Fairfield, Conn	June 30, 1937
Fire-place, grated	Augustus Graham	Fredericktown, Md.	Nov. 24, 1810
Fire-place, and oven	Jonathan Knight	Stoddard, N. H	Dec. 15, 1831
Fire-place, parlor and kitchen	John Hagerty	Stoddard, N. H Monroe, Mich	Mar. 24, 1838
Fire-place, sheet iron	Joseph Ingalis	Sambornton, N. H	May 23, 1833
Fire-place, sheet iron	Levi Mansfield	New Hartford, N.Y.	'May 90 1933
Fire-place, sheet iron	Gilbert Richards	Ashfield, Mass	Nov. 26, 1835
Fire-place, steam	John W. Cochran	Lowell, Mass	JUIV 18. 1834
Fire-place, stop	Elisha Putnam	New York	Aug. 24, 1802
Fire-place, and stoves	Allen Pollock	Boston, Mass	April 23, 1807
Fire-place, and stoves	Ezra Haskell	New London, Conn.	June 95 1919
Fire-place, and stoves	Chauncey Guernsey	Poultney, Vt Milburn, Maine	Tuly 7 1818
Fire-place, or stoves	John E. Cayford	Milburn, Maine	Dec. 31, 1833
Fire-place, or stoves	Elias W. Newton	Middletown, Ct	Dec. 3, 1834
Fire-place, or stoves	Foster Stevens	Springfield, Mass	Mar. 2, 1836
Fire-place, and warming buildings	James Cox	Philadelphia, Pa	May 2, 1834
Flues, chimney, dampers or valves		-	
for	Norman Smith	Hartford Conn	Jan. 25, 1841
Flue contracters or chimney valves			
for fire-places and grates	Henry Batchelder	Beverly, Mass	Jan. 8, 1842
Flues of cooking stoves	Ebenezer Ferren	Haverhill, N. H	Nov. 12, 1839
Plues of cooking stoves, arranging			•
and governing the draught in	Charles Guild	Cincinnati, Ohio	June 20, 1840
Flues of cooking ranges	Ebenezer Barrows	Boston, Mass	Dec. 31, 1839
Flues of elevated ovens, combined			
with cooking stoves	Rensselaer D. Granger	Albany, N. Y	Oct. 11, 1841
Plues of furnaces.—See Furnaces,	Class 2.	• •	,
Flue, furnaces, &c., machine for			
creating draught in	Thaddeus Fairbanks	St. Johnsbury, Vt	May 26, 1843
Plues, &c., of kitchen ranges	Samuel Pierce Thomas Whitson	New York	Feb. 21, 1838
Flues, of open fire-places	Thomas Whitson	New York city	June 14, 1838

			
· HOLDSPRAME OR DESCRIPTION.	PAT RICEGIA	androises	ARMATINES.
Flues of stove pipes, ornamented			
slides for covering	Perry Davis	Fall River, Mass	Aug. 4, 1841
Flues of stoves	Linus North	Palmyra, N. Y	
Flues of stoves	Micah Ketcham and		
-	William A. Wheeler	Boston, Mass	Nov. 25, 1839
Fuel, burning	Thomas Pearson	Monroe W'ks, N. Y.	May 17, 1837
Fuel, composition for	John Allen	New York city Philadelphia, Pa	Mar. 17, 1838 Jan. 14, 1811
Fuel, preparing, and stoves to use	Janico Lac	z madoipana, z acces	Jun. 14, 2011
therewith	Thomas Joyce	Camberwell, England	Nov. 12, 1838
Fuel, resin, pine for	Richard L. Wood	Philadelphia, Pa	Oct. 10, 1898
Fuel, saving	Zini Phinney	Cairo, N. Y	Oct. 31, 1819
Fuel, saw dust, drying	William Avery	Syracuse, N. Y	
Furniductor	William A. Barron Jephtha Bradley	New York St. Albans, N.Y	Sept. 10, 1812 June 24, 1844
Furnaces, air-heating	John Barker	Baltimore, Md	
Furnaces, air-heating	Ebenezer Barrow	New York	
Furnaces, air, for stone coal	Thomas Gregg	Connellsville, Pa	
Furnaces, adjustment of	Eliphalet Nott	Schenectady, N.Y	April 36, 1835
Furnaces, for anthracite coal	William Church	Boston, Mass	
Furnaces, for anthracite, &c	Oliver Woodruff John L. Sullivan	New York New York	
Furnaces, for anthracite, &c Furnaces, for anthracite, &c	William Barrett	Malden, Mass	
Furnaces, for anthracites	Denison Olmstead	New Haven, Conn	
Furnaces, for anthracite	M. Brook Bulkley	Pottsville, Pa	Jan. 16, 1835
Furnaces, and bake oven	Charles E. Russell	Philadelphia, Pa	
Furnace, baker's	Gardner Chilson	Boston, Mass	June 10, 1946
Furnace, boiler or burner Furnaces, and boiler, combined	Ezra L. Miller Philo M. Hackley	Brooklyn, N. Y Herkimer, N. Y	July 7, 1846 Jan. 23, 1815
Furnaces, and boiler, combined	Alexander Harrison	New Haven, Conn.	Mar. 2 1836
Furnaces, cooking, portable	Leonidas V. Badger		Jan. 30, 1890
Furnaces, cooking, portable	Asahel Cross	Cazenovia, N. Y	May 12, 1830
Furnaces, cooking, portable	William Haggerty, C.		1
	Lawrence, and Thomas Frazier		May 99 1830
Furnaces, cooking	Horace Gleason	Boston, Mass.	Dec. 15, 1837
Furnaces, cooking, and air-heating		Foxborough, Mass.	May 26, 1842
Furnaces, or economical stove		New York	April 6, 1908
Furnace, economizing fuel and con-		37 37 3 37 37	3.5 0 1000
suming smoke	Frederick P. Dimpfel	New York, N. Y.	May 9, 1839
Furnaces, evaporating for salt work Furnaces, and fire-place			
Furnaces, and fire-place			
Furnaces, fire-proof, for distilleries			
Furnaces, with fossil coal			
Furnaces, friction, for generating		T	NT 10 1999
Furnaces, to generate steam for		Lowell, Mass	Nov. 19, 1638
culinary purposes		. Marshfield, Mass	Jan. 5, 1631
Furnaces, grate bars of	John Kymer	. Caermarthan, Sout	hl
		Wales, England.	. July 19, 1844
Eurnaces, heating buildings		. Hartford, Conn	. Mar. 10, 1843
Furnaces, heating buildings	George Walker	. New Haven, Comn.	. June 10, 10m
Furnace for heating and warming apartments		Boston, Mass	Sent. 95, 1841
Furnace, hot air and fire grates for		1	•
heating apartments	. William H. Whiteley		. May 11, 1841
Furnaces, heated air to		. Tyrone, N. Y	. Aug 8, 1831
Furnaces, for heating ovens		. Boston, Mass	. Feb. 17, 1512
Furnaces, hot air, and bake oven			Mar 00 1834
Furnaces, hot air		Boston, Mana	Aug. 4, 1845
Furnaces, hot air	. Adrian Janes	New York	. Aug. 9, 1845
Furnaces, hot air	. William G. Wing	. New Bedford, Mass	s. May 23, 1846

^{*} Reissued October 14, 1835. † Antedated February 17, 1843, see letter book. ‡ Antedated Feb. 4, 1845.

. DESCRIPTION OR DESCRIPTION.	PANNAMA.	19494443	WHEN MOVED.
Furnace, hot air, for heating build-			
Furnace, hot water, for warming	Joseph R. Morris	New Haven, Conn	Aug. 12, 1846
_ buildings	Ezra L. Miller	Brooklyn, N. Y	July 7, 1846
Furnaces, making	George W. Robinson.	Attleborough, Mass.	Aug. 19, 1822
Furnaces, pot and pearl Furnaces, portable	Edward Ryan John Lewis	Pennsylvania Derby, Conn	April 29, 1793 July 8, 1834
Furnaces, portable	Jordon L. Mott	New York city	Oct. 19, 1838
Furnace, portable, for heating in bathing tubs	Rudolph Densmore		Nov. 26, 1840
Furnaces, portable			Mar. 16, 1844
Furnaces, portable hot air Furnace, smelting iron.—See Class	H. L. B. Lewis	New York	Sept. 19, 1845
Furnaces of steam boilers, &cS			
Furnace, summer, design for	William P. Cresson	Philadelphia, Pa	May 23, 1846
Furnaces, with reflectors	John Hurd, jr	Boston, Mass	Nov. 10, 1829
Furnaces, steam, for anthracite	Benjamin B. Howell	Philadelphia, Pa	Oct. 14, 1826
Furnaces, for stone or charcoal Furnaces, of stoves	John Eslin Eben Eaton	Philadelphia, Pa Troy, N. Y	June 19, 1830 Jan. 20, 1838
Furnaces, stoves, &c., constructing		Wailes, N. Y	Nov. 8, 1826
Furnaces, for tailors		Hartford, Conn	May 28, 1830
Furnaces, for warming buildings Galley, ships', for the distillation	F. A. Fickhardt	Easton, Pa	Sept. 8, 1836
of salt water	Enoch Hutchinson	Baltimore, Md	May 20, 1839
Gas burner	Antoine Arnoux	New York city	June 4, 1838
Gas burnerGas burner	William Black Joseph Battin	Boston, Mass	Aug. 9, 1845 June 6, 1846
Gas burners, argand	Geo. Daricott and Jo-	Philadelphia, Pa	June 0, 1040
	seph Nason	Boston, Mass	July 26, 1839
Gas burners, improvement in	Etienne Maccaud	Echallens, Switzerl'd	
Girandoles, design for	Wm. N. Hooper and		
	Co., ass'ee of Wm. Blake.	Boston, Mass	Mar. 17, 1843
Grates	Charles Hunt	New York	Mar. 17, 1812
Grates	Charles M. Graham	New York	Nov. 10, 1821
Grates	James Atwater	New Haven, Ct	Oct. 25, 1832
Grates	James Atwater	New Haven, Ct	Jan. 9, 1833
Grates	Barnabas Pike James Bennett	New York	Mar. 11, 1835 May 14, 1836
Grate.	John Goldenburgh	Cincinnati, Ohio	Oct. 7, 1846
Grate bars	William Ferrall	Charleston, S. C	April 25, 1843
Grates, and blower, for Lehigh			37 00 1000
Coal.	Holmes	New York	Nov. 26, 1826
Grates, cooking	Thomas Vinton John James Giraud	Philadelphia, Pa Baltimore, Md	Oct. 31, 1829 Feb. 10, 1836
Grates, design for	Adam Hampton	New York	May 17, 1844
Grates, and fire-place, for anthra-			
cite coal	Wm. M. Russell	Boston, Mass	Feb. 8, 1833
Grates, and fire place	Ellison Conget	Newark, N. J	July 22, 1837 Jan. 7, 1846
Grate, fire place, design for	W. & N. H. Jackson. Adam Hampton	New York, N. Y New York, N. Y	Jan. 10, 1846
Grate, fire place, design for	Adam Hampton	New York, N. Y	July 25, 1846
Grates, hatters', &c See Class 3.	· -		•
Grates, kitchen	Levi Disbrow	New York	Nov. 22, 1830
Grates of lime kilns			
Grates of stoves, constructing Grates. open			
Gretes, open, for burning coals	James Atwater	New Haven, Ct	Nov. 9, 1838
Grates, parlor	William Anderson	New York	June 25, 1836
Grates, parlor	James Wilson	New York	Sept. 13, 1845
Grates, pendulum	Nathan Winslow	Washington D.C.	July 3, 1830
Grates, portable	Allen Pollock	Boston, Mass.	Mar. 3. 1837
Grates, reverberating	Robert Mayo	Richmond, Va	Nov. 1, 1825
0	t Possian natest Oct 16. I		•

^{*} Poreign patent, Oct. 16, 1845.

INVENTIONS OR DISCOVERIES.	PATHNESMS. :	REGRESSION.	WHEN MICHE
C	Free D. M. Huebes	Non Honor Ct	Tul- 00 100
Grates, revolving and shifting	Ichn C Howard	New Haven, Ct Hampton, Ct	Fab 12
Grates, slidingGrates, sliding, flute	Daniel Desmond	New York city	Dec. 26, 1
Grates and stoves	Edward H. Divon	New York city	Aug. 8, 162
Grates, stoves, and furnaces	Elias W. Newton	Middletown, Ct	
Grates, in stoves, lowering and			0, 200
raising	Josiah Dutcher	New York city	June 30, 1836
Grates, and stoves, parlor & kitchen	Elkanah Ingalls	Providence, R. I	April 22, 183
Grates, union		New York	Sept. 12, 183
Gridirons	Daniel Ball	Ballstown, N. Y	Aug. 29, 182
Gridirons		Lansingburg, N. Y.	Aug. 10, 182
Gridirons Gridirons*		Berlin, Ct	July 21, 1034
Fridirons"	Pratt	Meriden, Ct	Tuly 91 1839
Gridirons		W. Windsor, N. Y.	
Gridirons, constructing		Northampton, Mass.	
Gridirons, guttered		New London, Ct	Mar. 6, 1820
Gridirons, rotary		Mendon, Ct	Oct. 28, 183
Gridirons, and spider		' Meriden, Ct	Nov. 14, 1836
Hatters' kettles		Hartford, Ct	Nov. 8, 1845
Hearths, fire, for ships	John Lamb	Amboy, N. J	Mar. 18, 1820
Heat, abstracting from smoke by	_ :		_
basket grates	Daniel Steinhauer	Philadelphia, Pa	Dec. 13, 1832
Heat, applying and conducting ap-	71 0 5 1	NY NY 1	D 00 100
paratus for	John C. Douglass	New York	Dec. 23, 1834
Heat, applying, to fluids	S. Applegate, T. How-	Dhiladalahia Da	N 00 1000
West confision from lime	ard & P. H. Wharton Peter Wenn		
Heat, applying, from lime Heat, collecting and retaining in		Philadelphia, Pa	Mar. 8, 1836
stoves	William Phœbus	New York	Nov. 28, 1817
Heat, evolution and management		THE POLICE OF THE PARTY OF THE	2101. 20, 2021
of t	Eliphalet Nott	Schenectady, N. Y	Mar. 23, 1826
Heat, evolution & management of	Eliphalet Nott	Schenectady, N. Y	June 21, 1826
Heat, evolution & management of	Eliphalet Nott	Schenectady, N. Y Schenectady, N. Y Schenectady, N. Y	Dec. 29, 1826
Heat, evolution & management of		Schenectady, N. Y	May 30, 1827
Heat, evolution & management of		Schenectady, N. Y.	Mar. 26, 1828
Heat, evolution & management of		Lewistown, N. Y Schenectady, N. Y	Mar. 2, 1836
Heat, evolution & management of	Eliphalet Nott	Schenectady, N. Y.	June 29, 1833
Heat, generating, by hydrogen	Tamia A Wall	Name I N I	T 9 1049
gast	Lewis A. Hall	Newark, N. J	June 3, 1843
Heat, produced by the manage- ment of combustion	Keene A. Bille	New York	Nov. 8, 1828
Heat, regulating by machinery	Lemuel W. Wright	London, Eng	Aug. 25, 1831
Heat, retainer and imparter	John R. Mitchell	Philadelphia, Pa	Nov. 19, 1818
Heat, transmitting by circulation		Citizen U.S., now in	2.011 20, 2020
of hot air, apparatus for.		London	Sept. 4, 1840
Heating air, for warming houses.	J. W. & Eli Kirk	Philadelphia, Pa	Aug. 30, 1833
Heating buildings	Angier M. Perkins	Now in London	Aug. 20, 1838
Heating and boiling water	George J. Payne	Lockport, N. Y	Dec. 27, 1826
Heating buildings, apparatus for.	George M. Dexter	Boston, Mass	Dec. 1, 1840
Heating buildings	Reuben Mitchell	Portland, Me	April 11, 1842
Heating buildings, apparatus for .	Otis Packard	Roxbury, Mass	Mar. 9, 1842
Heating carriages	Alex'r McWilliams	Washington, D. C.	Nov. 29, 1833
Heating chocolate ingredients	G. W. Waite		
Heating liquids by steam	Jos. B. Armstrong	Wilkes co., Ga	
	Samuel Belton	Philadelphia, Pa	June 12 1210
Heating liquids	David McAllister	Brookfield Vt.	June 15, 1892
Heating plates for hot pressing	Moses A. Quiglev	Washington co., Md	June 15. 1819
Heating rooms	Allen Pollock	Boston, Mass	April 24, 1807
Heating water for scalding hogs	Isaac Thorn, jr	Bordentown, N. J.	Feb. 11, 1834
Heating water, machines	D. B. Barnum	New Fairfield, Ct	June 25, 1836
Jeating water, steaming vegetables	James S. Marsh & A.	`	
-	Munger		April 2, 1841
* Reissued Sept. 17, 1834.	† Reissued Sept. 17, 1839.		e 1, 1843.
a Patented Aug., 1	838. § Ante	dated Jan. 30, 1832.	

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METALOGICA OR DISACIPATION.	PATENCEA:	RRAIDENCS.	WHEN ISSUED.
	-		
Het water, circulation of	William Beebe	New York	Dec. 16, 1845
Illuminator, for stair cases		Baltimore, Md	June 24, 1883
Jack, steam		Boston, Mass	
Kettles, and boiler	Philo N. Griffith	Orange, N. J	Sept. 26, 1825
Kettles, hatters', constructing.—S	ee Class 3.		
Kettles, planking.—See Class 3.	Deniel B. Thomas	Managa Ohio	Come 10 1041
Kettles, potash, mode of setting	Daniel B. Turner	Florence, Ohio Brooklyn, N. Y	Sept. 18, 1841 Jan. 11, 1840
Kettles, salt, constructing & setting Kettles, &c., setting for boilers	Chs. C. P. Crosby Geo. W. Robinson	Attleborough, Mass.	
Kettles, sugar, setting	James Malory	New Orleans, La	
Kettles, sugar, setting & arranging		New Orleans, La	
Kiln, charring coal	Conrad Kounslar	Mill Creek, Va	
Kiln, charring coal	Michael Carroll	Telleco Plains, Tenn	
Kiln, drying flour	Nathan Tyson	Baltimore, Md	
Kiln, drying corn	Sebre Howard	Adrian, Mich	
Kiln, for drying grain	James Deneale	Virginia	July 10, 1800
Kiln, for drying grain		Middlesex, N. J	
Kiln, for drying grain Kiln, for drying grain		Bucks co., Pa Clinton co., N. Y	
Kiln, for drying grain		Colebrooke, N. H.	July 9, 1812
Kim, for drying grain	Robert Andrews	Fleming co., Ky	
Kiln, for drying grain	Thomas Crook	New Hope, Pa	Nov. 30, 1835
Kiln, for drying grain	Henry Y. and Ab'm	Springfield and Dur-	
 -	Haupt, jr.	ham, Pa	Dec. 5, 1842
Kiln, steam, for drying malt	David St. L. Davis	Hibernia, Tenn	Aug. 30, 1822
Kiln, steam Kitchens, moveable	George G. Moore	New York New York	Dec. 4, 1824 July 1, 1814
Kitchen ranges	George Youle Eliphalet Nott	Schenectady, N. Y.	July 1, 1814 April 22, 1835
Kitchen ranges	George Johnson	Philadelphia, Pa	May 23, 1836
Kitchens, steam, for baking			June 11, 1811
Kitchens, steam, for ships	Nich. Boureau	Middlesex, N. J	Aug. 30, 1802
Kitchens, summary	John Bouis		Jan. 19, 1826
Lamps	James Mallory		Nov. 20, 1812
Lamps			April 27, 1814
Lamps Lamps		Barnstable, Mass Boston, Mass	Oct. 3, 1817 Jan. 23, 1818
Lamps	James Duke		
Lamps	Isaiah Jennings		Mar. 3, 1829
Lamps	Isaiah Jennings	New York	Sept. 10, 1829
Lamps	Daniel Gilbert	Brattleborough, Vt .	Mar. 29, 1834
Lampe	Jacob Keim	Philadelphia, Pa	Mar. 29, 1834
Lamps †	Isaiah Jennings		Sept. 22, 1836
Lamps :	Isaiah Jennings Samuel Rust	New York city New York city	Oct. 16, 1830 April 20, 1837
Lamps.		New York city	June 30, 1837
Lamps, &c		New York city	Jan. 9, 1838
Lamps, &c.	Samuel Rust	New York city	June 7, 1838
Lamps, &c	John C. Fletcher	Springfield, Ohio	July 12, 1838
Lamps, &c	Joshua T. Beale		Nov. 29, 1838
Lampe	Edwin B. Horn		
Lamps			
Lamps Lamps		Baltimore, Md	July, 2, 1846
Lamps		Boston, Mass.	May 17. 1844
Lamps, design for	P. F. Sane	E. Cambridge, Mass	Mar. 26, 1845
Lamps, design	William W. Bacon	Middletown, Conn	Oct. 18, 1842
Lamps T	P. F. Slane and John		
Town shahal 6 2 1 1	Golding	E. Cambridge, Mass	Jan. 23, 1845
Lamp, alcohol, for medicated va-		Middleson Com	Man 10 1014
por bath. **	assig'ee of L.E.Hicks	Middletown, Conn.	Mar. 16, 1844
Lamps, argand, arranging the cy- lindrical tubular burner		Boston, Mass	Dec 21 1949
Lamps, argand	David Melville	Newport, R. I	Nov. 19. 1818
Lamps, argand, to common			
*Add'l imp., Dec 11, 1838. † Add'l imp., Mar. 15, 1838. † Ressued Sept. 22, 1836. † Antedated April 2, 1838. Add'l imp., Dec. 17, 1862. ¶ Antedated July 23, 1844. ** Antedated Dec. 15, 1843.			

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envenzione or discoveries.	PAT ROTÈRIO.	zantilarus.	waters werein.
Lamps, argand, construction of	Benj. Hemmenway	Roxbury, Mass	Jan. 20, 1841
Lamps, argand, construction of Lamps, argand oil burner, adapted	John S. Tough	Baltimore, Md	May 11, 1841
to burn spirits of turpentine Lamps, argand, spirits of turpen-	Charles Carr	Philadelphia, Pa	June 20, 1840
Lamps, argand, volatile ingredients		Philadelphia, Pa	Mar. 28, 1849
Lamps, for boiling water Lamps, for burning evaporable in-	Daniel Pettibone Thomas G. Fessenden		Mar. 28, 1842 Jan. 31, 1827
gredients	Isaiah Jennings William H. Starr	New York New York, N. Y	Aug. 1, 1831 June 6, 1846
Lamps, burning camphines Lamps, burning camphines	Augustus V. H. Webb Michael B. Dyott	New York Philadelphia, Pa	Feb. 19, 18 39 Aug. 25, 18 46
Lamps, burning camphine, &c	Stephen J. Gold Edward T. Williams&	Cornwall, Conn	July 16, 1841
Lamps, burning lard and other concrete substances.	Latham T. Tew	Newport, R. I	June 26, 1841
Lamps, burning lard, tallow, &c Lamps, burning lard, tallow, &c	George Carr { Norman S. Cate and		Sept. 4, 1841 Nov. 16, 1841
Lamps, burning tallow) James H. Putnam Moses S. Woodward.	Malden, Status Marshalton, Pa	Sept. 18, 1841
Lamps, burning volatile ingredients		New York	Sept. 11, 1841
Lamp caps.	Asa Taylor Francis Draper	Philadelphia, Pa E. Cambridge, Mass	Oct. 9, 1819 Mar. 20, 1844
Lamp caps	D. Jarves & New Eng- land Glass Co., assig-		
Lamps, coach	nees of R. H. Eddy. William Lawrence	Boston, Mass Wallingford, Conn	May 10, 1844 April 7, 1838
Lamps, compound spirits or oil,			
Lamps, construction of	John W. Shulz & Joel	New York	June 27, 1832
Lamps, construction and economy	Truel	Medford, Mass	Mar. 19, 1831
of light	Isaiah Jennings Christian and Charles	New York	July 11, 1829
Lamp, construction of	Richman	Philadelphia, Pa Baltimore, Md	June 11, 1841 Oct. 7, 1844
Lamps, double reflecting	William Foster, jr., & Leonard Foster	Boston, Mass	
Lamps, economical, condensing	Thomas Phillips	New York	Aug. 28, 1813 June 25, 1828
Lamps, essential oils, burning	Michael B. Dyou	Philadelphia, Pa	May 30, 1849
Lamps, fat, &c., burning Lamps, regulating the flame of	Josiah Warren John S. Tough	Cincinnati, Ohio Baltimore, Md	Feb. 28, 1821 July 17, 1839
Lamps, gas	David Melville	Newport, R. I	May 1, 1810
Lamps, gas	David Melville Solomon Andrews	Newport, R. I Perth Amboy, N. J.	Mar. 18, 1818 May 10, 1838
Lampe, gas	Joseph M. Truman &	_	
Lamps, gas, &c	George Truman Robert Cornelius	Penn township, Pa Philadelphia, Pa	Nov. 19, 1833 Mar. 18, 1841
Lamps, glass socket for	Henry Whitney and	· .	
Lamps, glass, caps of	Thomas Leighton Francis Draper	Cambridge, Mass E. Cambridge, Mass	Jan. 11, 1839
Lamps, glass, chimneys	Deming Jarves	Boston, Mans	July 20. 1899
Lamps, hanging!	Alonzo Platt	Middletown, Conn	Out. 8, 1836
Lamps, hydro-pneumatic Lamps, improvement in	Benjamin F. Greenough	Providence, R. I Boston, Mass	April 10, 1841
Lamps, improvement in §	Samuel Rust	New York, N. Y	
Lamps, improvement in [T. F. Strong	Citizen of the U.S., residing in London	July 7, 1846
Lamps, lard	Benjamin H. Horn	Boston, Mass	May 26, 1842
Lamps, lard	Archibald H. Baird	New York, N. Y Philadelphia, Pa	May 26, 1842
Lamps, lard	Fred'k H. Southworth	Washington, D. C.	July 2, 1842
Lamps, lard	John T. Creighton	Alexandria, D. C	Aug. 11, 1849
*Antedated Nov 23, 1838; disclaimer Ap † Antedated Aug. 13, 1836	gil I5, 1839; add? imp., Sep i § Antedated Jan. 29, 1845	o. 25, 1839 — † Add'i imp. 3. — Antodated May 1, 18	, March 18, 1841 * 43.
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distributions or distribution.	PATRITUTE.	ruhidence.	WHEN ISSUED.
Lamps, lard	John Grannis.	Oberlin, Ohio	Aug. 25, 1849
Lamps, lard	Fred'k H. Southworth	Washington, D. C.	Oct. 22, 1842
Lamps, lard	John Lee	Wellsville, Ohio	Nov. 21, 1842
Lamps, lard	P. Robinson	Chillicothe, Ohio	Dec. 5, 1842
Lamps, lard	Zebulon Worrall	Chesterhill, Ohio	Feb. 7, 1842
Lamps, lard	Horace Howard	Wooster, Ohio	Feb. 10, 1843
Lamps, lard	William S. Moore	Springfield, Illinois . Portsmouth, Ct	Feb. 10, 1843 Feb. 24, 1843
Lamps, lard	Silas G. Terry Patrick J. Clark	Meriden, Ct	Mar. 21, 1843
Lamps, lard*	Robert Cornelius	Philadelphia, Pa	April 6, 1843
Lamps, lard	Charles Wilhelm	Philadelphia, Pa	April 6, 1843
Lamps, lard	H. P. Benton	Norwalk, Ohio	April 10, 1843
Lamps, lard	William Thomson	Cincinnati, Ohio	April 10, 1843
Lamps, lard	Luther Jones	Utica, N. Y	May 26, 1843
Lamps, lard	Henry Rose	Rushville, Illinois	Aug. 4, 1843
Lamps, lard	Harvey Tomlinson	Geneva, N. Y	Sept. 1, 1843
Lamps, lard	Thomas Houghton & John F. Wallace	Philadelphia, Pa	Nov. 15, 1843
Lamps, lard†	Jesse Neal, assignee of	Middlebury & Roots-	2.01. 10, 1040
	Benjamin H. Maltby	town, Ohio	May 4, 1842
Lamp, lard	John Tobin	Bloomfield, N. J	Mar. 26, 1844
Lamps, for lard	Stephen P. Moorehouse	Ludlowville, N. Y	April 26, 1830
Lamps, lard	Andrew Keyser	Fulton, Missouri	Aug. 20, 1845
Lamps, lard, with argand burners;		Philadelphia, Pa	April 6, 1843
Lamps, and lamp torches	Jeremiah Martin	Boston, Mass	June 30, 1837
Lamps, light-house	Christopher Cornelius.	Philadelphia, Pa	Dec. 28, 1822
Lamps, light-house	Winslow Lewis, sen Benj. Hemmenway	Boston, Mass	Aug. 7, 1844
Lamps, light-house	Charles Wheeler	Roxbury, Mass	April 11, 1846
Lamps, light-house burner	Isaac Dunham	Bristol, Me	June 20, 1836
Lamps, lighting	Edmund Hubbard and		
	Wm. L. Cheney	Chester, Mass	Mar. 14, 1834
Lamps, for liquids to be burnt			
therein	Joseph Hawkins	Baltimore, Md	April 21, 1810
Lamp, night	T. F. Strong	New York, N. Y	July 20, 1846 Dec. 31, 1812
Lamps, nurse	William Howe Samuel Rust	Boston, Mass New York city	Sept. 25, 1837
Lamps, patent	Samuel Rust	New York city	Jan. 9, 1838
Lamps, pneumatic	Ez. T. Smith	Lenox, Mass	Nov. 8, 1819
Lamps, reflector, elastic	Josiah Flagg & Josiah	,	•
	Flagg, jr	Boston, Mass	
Lamps, reflecting	John C. Fletcher	Springfield, Ohio	
Lamps, reflector for	Edward Brown	Dover, N. H	Oct. 1, 1830
Lamps & reflectors of light-houses,	Asson Folger	Nantuaket Mass	Mar 99 1949
Lamps, regulating draught	Aaron Folger E. Whelan	Nantucket, Mass Philadelphia, Pa	
Lamps, safety compass	Jos. Feinour and Jos.	z maucipina, z a	11141. 20, 1010
	Feinour, jr	Philadelphia, Pa	April 5, 1828
Lamps, screw head for	Patrick J. Clark	Meriden, Ct	June 7, 1839
Lamp, self-supplying	Edwin B. Horn	Boston, Mass	Sept. 11, 1844
Lamps, shade to	Samuel Rust	New York city	Jan. 9, 1838
Lamps, signal	Jos. Feinour and Jos.	Dhiladalahia Da	Aug 1 1990
Lamns enirits of humantina hours	Feinour, jr	Philadelphia, Pa	Aug. 1, 1036
Lamps, spirits of turpentine, burn- ing	Luther Jones	New York city	Nov. 25, 1838
Lamps, suspension, barrel	Ira Couch and James	2.0 m 2 Or it Group	, 2000
,,,,,	A. Frary	Meriden, Ct	Mar. 13, 1833
Lamps, tallow		South Carolina	June 11, 1798
Lamps, tallow	Isaiah Jennings	New York	May 20, 1830
Lamps, tallow	Norman Rublee	Montpelier, Vt	Dec. 4, 1832
Lamp, volatile ingredients, burning	Isaiah Jennings	New York, N. Y	Oct. 12, 1844
Lamps for volatile materials Lamps, volatile materials		New York, N. Y Boston, Mass	Nov. 4, 1842 May 22, 1835
aminipa, romanio materiala	George Evles	DOBIUE, MIASS	111th wet 1000
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^{*}Antedated April 1, 1843.

Lamps, water in combustion with spirits of turpentine. Samuel Morey. Samuel Rust. New York. New York. May 10, 1845 Lamp wicks, raising chevering! Lamps, wick tubes for. Samuel Rust. New York. New Yor	INVENTIONS OR DISCOVERIES.	P átentes.	RESIDENCE.	WHEN SHUED.
spirits of turpentine. Samuel Morey. Boston, Mass. Nov. 19, 1835 Lamp wicks, raising 6. Samuel Rust. New York, N. Y. Mar. 9, 1845 Lamp wicks, raising 6. Gowering! Samuel Rust. New York, N. Y. Mar. 9, 1844 Lamp wicks, raising 6. Gowering! Samuel Rust. New York, N. Y. Mar. 9, 1844 Lamps, wick tubes 60. Samuel Rust. New York, N. Y. Mar. 9, 1844 Lamps, wick tubes 60. John Smaniford, and A. D. Lamps, of wood. John Staniford, and A. D. Lamps, of wood. John Street. John Street. Saybrook, Ct. July 20, 1831 Lamps, of wood. John Street. John Street. Saybrook, Ct. July 20, 1831 Lamps, revolving, for light-houses Lantern. John Staniford, and A. D. Alten. Windham, Ct. May 2, 1846 Lantern, for steamboats [8] John M. Read. Louisrille, Ky. Dec. 98, 1838 Mantle, pieces, cast iron. Isaac Deaves. Difficult for the pieces. Eliphalet Not. Schemetady, N. Y. June 28, 1820 Mantles, for fire places. Eliphalet Not. Schemetady, N. Y. June 29, 1821 Officeders. John West. Joseph Benson. Botton, Mass. Feb. 20, 1839 Corens. John Barnitt. John Branitt. J	Tames water in combustion with			
Lamp wicks, raising Samuel Rust. New York, N. Y. Mar. 9, 1845 Lamp wicks, raising & loweringt, Samuel Rust. New York, N. Y. Mar. 9, 1845 Lamps wicks tubes for Samuel Rust. New York, N. Y. Mar. 9, 1845 Lamps wicks tubes for Samuel Rust. New York, N. Y. Mar. 9, 1845 Lamps, of wood. Jos. H. Mather. Saybrook, Ct. 1914 90, 1831 Lamps, wooden, metallic bowls. John Street. Saybrook, Ct. 1914 90, 1831 Lamps, wooden, metallic bowls. John Street. Saybrook, Ct. 1914 90, 1831 Lamps, wooden, metallic bowls. John Street. John Staniford, and A. D. Allen. John Staniford, and A. D. Allen. John M. Rada. Louisville, Ky. Dec. 28, 1838 Langten, for steamboats John M. Rada. Louisville, Ky. Dec. 28, 1838 Laghts, revolving, for light-house Benjamin F. Willard Boston, Mass. John Mar. 18, 1845 Golf feeders. Saber Cornelius. Sandevich, N. Y. July 20, 1831 Matalte pieces, cast iron. Leaac Deaves. Philadelphia, Pa. Dec. 29, 1832 Metallic bodies, treatment of. Eliphalet Nott. Schenectady, N. Y. July 20, 1831 Metallic bodies, treatment of. Eliphalet Scripture. John West. John Mar. J. 1845 Ovens. John Barnitt. Joseph Benson. Boston, Mass. Feb. 29, 1839 Ovens. John Barnitt. John Branitt. John Br		Samuel Morey	Roston Mass	Nov. 19, 1833
Lamp wicks, raising Samuel Rust New York, N. Y. Mar. 9, 1844				
Lamps wicks tubes for Camps wick tubes for Camps wick tubes for Camps wick tubes for Camps wicks				
Lamps, wick tubes for. Senoch W. Perry Boston, Mass. Oct. 12, 1842 Lamps, of wood. Jos. H. Mather. Saybrook, Cl. July 20, 1831 Lamps, wooden, metallic bowls. John Street. Philadelphia, Pa. May 2, 1846 Lantern. John Street. Philadelphia, Pa. May 2, 1846 Lantern. John Street. Philadelphia, Pa. May 2, 1846 May 2				
Lamp wicks, tubes for. Lamps, wooden, metallic bowls Lambern. Lantern. Lantern, for steamboats John Straiford, and A. D. Allen D. Alle				
Lamps, of wood. Jos. H. Mather Saybrook, Ct. July 20, 1831 Lamps, wooden, metallic bowls. John Street. Philadelphia, Pa. May 2, 1846 Lantern, reflecting and magnifying Lantern, for steamboats John Staniford, and A D. Allen				
Lampen, wooden, metallic bowls. Lantern. Lantern, for steamboats Lights, revolving, for light-houses Mantles, for fire places. Mantles profile places. Mantle pieces, cast iron. Mantleis, for fire places. Mantle pieces, cast iron. Mantleis, for fire places. Mantle pieces, cast iron. Metallic bodies, treatment of cliphalet Nott. Schenectady, N. Y. Coli feeders. Joseph Benson. Oil feeders. Joseph Benson. Oil feeders. Joseph Benson. Oil feeders. Joseph Benson. John West. Liphalet Nott. Schenectady, N. Y. Jone 29, 1839 Philadelphia, Pa. Peb. 21, 1821 Boston, Mass. Feb. 20, 1839 Boston, Mass. Feb. 21, 1821 Philadelphia, Pa. Peb. 21, 1821 Philadelphia, Pa. Peb. 21, 1821 Philadelphia, Pa. Peb. 21, 1821 Boston, Mass. Feb. 20, 1839 Boston, Mass. Feb. 20, 1839 Boston, Mass. Feb. 20, 1839 Philadelphia, Pa. Peb. 21, 1821 Philadelphia, Pa.				July 20, 1831
Lantern				
Laatern, reflecting and magnifying Winslow Lewis. Boston, Mass. June 8, 1810 Lantern, for steamboats			,	,,
Lantern, reflecting and magnifying Lantern, for steamboats			Windham, Ct	May 10, 1804
Lantern, for steamboats John M. Read. Louisville, Ky Dec. 39, 1838 Mantles, for fire places. Lights, revolving, for light-houses Banantles, for fire places. Light-houses Light-halt Nott. Schenectady, N. Y. June 29, 1823 (1) (1) (feeders. Light-halt Nott. Schenectady, N. Y. June 29, 1823 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Lantern, reflecting and magnifying			
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Mantles, for fire places. Mantle pieces, cast iron. Isaac Deaves. Philadelphia, Pa. Peb. 21, 1821				
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Metallic bodies, treatment of. Cili feeders Robert Cornelius Philadelphia, Pa. April 6, 1845 Oil feeders. Boston, Mass. Feb. 28, 1844 Oil feeders. Eliphalet S. Scripture Syracuse, N. Y. Mar. 15, 1845 Ovens. John West: Stafford, Va. Oct. 27, 1806 Ovens. John Barnitt. Upper Providence, Pa. Mar. 3, 1809 Ovens. John Bouis. Baltimore, Md. Dec. 27, 1806 Ovens. John Bouis. Baltimore, Md. Dec. 27, 1806 Ovens. John Bouis. Baltimore, Md. Dec. 17, 1834 Ovens. Samuel S. Laton Manafield, Ct. Dec. 17, 1834 Ovens. Samuel S. Laton Manafield, Ct. Dec. 17, 1834 Ovens. Samuel S. Laton Manafield, Ct. Dec. 17, 1834 Ovens. Samuel S. Laton Manafield, Ct. Dec. 17, 1834 Ovens. Samuel S. Laton Manafield, Ct. Dec. 17, 1834 Ovens. Samuel S. Laton Manafield, Ct. Dec. 17, 1834 Ovens. American Dec. 17, 1834 Ovens. American Dec. 17, 1834 Ovens. American Dec. 17, 1834 Ovens, bake Dec. Dec. 17, 1834 Ovens, bake Dec. Dec. 17, 1834 Ovens, baking, and heating houses Ovens, devated, combined with George W. Eddy Materford, N. Y. Ovens, devated, combined with Cooking and other stoves. Samuel Pollard Brandon, Vt. Peb. 10, 1846 Ovens, elevated, combined with Cooking and other stoves. Samuel B. Spaulding Brandon, Vt. Aug. 28, 1841 Ovens, elevated, combined with Cooking and other stoves. Samuel B. Spaulding Brandon, Vt. Aug. 28, 1841 Ovens, elevated, combined with Cooking and other stoves. Samuel B. Spaulding Brandon, Vt. Aug. 28, 1841 Ovens, elevated, valves for. Dec. 21, 1835 Ovens, elevated, combined with Cooking and other stoves. Samuel B. Spaulding Brandon, Vt. Aug. 28, 1841 Ovens, portable Dec. Dec. 21, 1835 Ovens, perpetual James Deneale Dumfries, Va. Dec. 4, 1866 Ovens, portable Dec. Dec. 21, 1835 Ovens, portable Dec. Dec. 21, 1835 Ovens, portable Combine				Feb. 21, 1821
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Oil feeders.		Robert Cornelius		April 6, 1843
Dil feeders		Joseph Benson	Boston, Mass	Feb. 28, 1844
Ovens.	Oil feeders	Eliphalet S. Scripture.	Syracuse, N. Y	
Ovens. John Bouis. Baltimore, Md. Dec. 30, 1812 Ovens. Josiah C. Carlisle. Chesterville, Me. April 19, 1833 Ovens. Richard R. Tongue. Chesterville, Me. Aug. 15, 1834 Ovens. Benjamin Blaney. Boeton, Mass. Dec. 17, 1834 Ovens. William H. Akins. Berkshire, N. Y. Juc. 2, 1836 Ovens, American. Ephrain Treadwell. Berkshire, N. Y. Juc. 2, 1836 Ovens, bake. Henry Reip. Baltimore, Md. Sept. 27, 1835 Ovens, baker. Eben B. Strong. Buffalo, N. Y. April 11, 1836 Ovens, baking, and heating houses Jacob Baldwin. Northfield, Mass. April 11, 1836 Ovens, construction & application Samuel Pollard. New York city. Oct. 27, 1835 Ovens, double in chimneys. Relay Medy. Robert M. Waterford, N. Y. Feb. 1, 1836 Ovens, elevated, valves for. Henry Stanley. Waterford, N. Y. Feb. 1, 1846 Ovens, elevated, valves for. Henry Stanley. West Poultrey, Vt. June 11, 1842 Ovens, flue, door. Benj. Simon	Ovens	John West	Stafford, Va	
Ovens. Josiah C. Carlisle. Chesterville, Me. April 19, 1833 Ovens. Richard R. Tongue Fryburg, Me. Aug. 15, 1834 Ovens. Samuel S. Eaton. Mansfield, Ct. Dec. 17, 1834 Ovens. Benjamin Blaney. Boston, Mass. Dec. 17, 1834 Ovens. William H. Akins. Berkshire, N. Y. June. 2, 1836 Ovens, American. Ephraim Treadwell. Salem, Mass. Aug. 27, 1818 Ovens, bake. Henry Reip. Baltimore, Md. Sept. 27, 1825 Ovens, baking, and heating houses ovens, baking over a cooking furnace. Jacob Baldwin. New York city. Oct. 27, 1835 Ovens, construction & application overs, for cooling and annealing oven doors, improvement in. Gloor W. Eddy. Waterford, N. Y. Feb. 10, 1846 Ovens, devated, combined with cooking and other stoves. George W. Eddy. Waterford, N. Y. Feb. 10, 1846 Ovens, elevated, valves for. Henry Stanley. West Poultney, Vt. June 11, 1842 Ovens, elevated, combined with cooking stoves. Samuel B. Spaulding. Brandon, Vt. Aug. 28, 1841 Ovens, heating rooms. J. A. Pitts.	Ovens	John Barnitt	Upper Providence, Pa	
Ovens. Richard R. Tongue Fryburg, Me. Aug. 15, 1834 Ovens. Samuel S. Eaton. Mansfield, Ct. Dec. 17, 1834 Ovens. Benjamin Blaney. Boston, Mass. Dec. 17, 1834 Ovens. William H. Akins. Berkshire, N. Y. June 2, 1836 Ovens, American. Ephraim Treadwell Berkshire, N. Y. June 2, 1836 Ovens, bake Henry Reip. Baldimore, Md. Sept. 7, 1825 Ovens, baking, and heating houses Jacob Baldwin. Northfield, Mass. April 11, 1836 Ovens, baking over a cooking furnace. Eben B. Strong. Buffalo, N. Y. April 11, 1836 Ovens, for cooling and annealing Ovens, for cooling and other stoves. Samuel Pollard. Bucksport, Me. Jane 12, 1835 Ovens, elevated, combined with cooking stoves. Reuben Bacon & Wm. E. Marshall. Walpole, N. H. Feb. 10, 1846 Ovens, elevated, combined with cooking stoves. Henry Stanley. West Poultrey, Vt. Dec. 30, 1841 Ovens, heating by anthracite. F. C. Treadwell Northampton, Mass. Aug. 28, 1840 Ovens, perpetual. Jan. Pitts. Willi	Ovens	John Bouis	Baltimore, Md	
Ovens. Samuel S. Eaton Mansfield, Ct. Dec. 17, 1834 Ovens. Benjamin Blaney. Boston, Mass. Dec. 17, 1834 Ovens. William H. Akins. Berkshire, N. Y. June 2, 1836 Ovens, American Ephraim Treadwell Berkshire, N. Y. June 2, 1836 Ovens, bake Ephraim Treadwell Salem, Mass. Aug. 27, 1818 Ovens, baking, and heating houses Jacob Baldwin Northfield, Mass. April 11, 1836 Ovens, baking over a cooking furnace Jacob Baldwin Northfield, Mass. April 11, 1836 Ovens, for cooling and annealing Ovens, for cooling and annealing Ovens, double in chimneys. Samuel Pollard. Bucksport, Me. Jane 12, 1835 Ovens, elevated, combined with cooking and other stoves. George W. Eddy Waterford, N. Y. Feb. 10, 1846 Ovens, elevated, valves for. Benj. Simonds, jr. Bending, Mass. Preb. 10, 1846 Ovens, elevated, combined with cooking stoves. Samuel B. Spaulding. Brandon, Vt. Aug. 28, 1841 Ovens, pervetual, ovens, heating by anthracite. F. C. Treadwell. Brooklyn, N. Y. June 11, 1842 Ovens, perpetual.	Ovens		Chesterville, Me	April 19, 1833
Ovens	Ovens			
Ovens, American Ovens, American Ovens, bake Ovens, bake Ovens, baker Ovens, baking, and heating houses Ovens, baking over a cooking furnace Ovens, for cooling and annealing ovens, for cooling and annealing ovens, double in chimneys. Ovens, elevated, combined with cooking and other stoves. Ovens, elevated, valves for Ovens, elevated, valves for Ovens, elevated, used on cooking stoves. Ovens, flue, door Ovens, flue, door Ovens, heating rooms Ovens, heating rooms Ovens, perpetual Ovens, perpetual Ovens, perpetual Ovens, perpetual Ovens, perpetual Ovens, portable combined with stoves. Ovens, portable, combined with stoves. Ovens, portable, combined with stoves, portable, combined			1	
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Ovens, American	_			
Ovens, baker				
Ovens, baking, and heating houses Ovens, baking over a cooking furnace				Aug. 21, 1010
Ovens, baking, and heating houses Ovens, baking over a cooking furnace. Ovens, construction & application Ovens, for cooling and annealing Ovens, double in chimneys. Ovens, elevated, combined with cooking and other stoves. Ovens, elevated, combined with cooking stoves. Ovens, elevated, combined with cooking stoves. Ovens, flue, door. Ovens, heating rooms. Ovens, heating rooms. Ovens, perpetual. Ovens, perpetual. Ovens, perpetual. Ovens, perpetual. Ovens, portable. Ovens, portable. Ovens, portable, combined with stoves. Ovens, portable, combined			Balumore, Md	Sept. 21, 1023
Ovens, baking over a cooking furnace			Burralo, N. Y	
Ovens, construction & application Ovens, for cooling and annealing Oven doors, improvement in Ovens, double in chimneys		Jacob Baidwin	New York city	Oct. 21, 1000
Ovens, construction & application Ovens, for cooling and annealing glass.—See Class 15, Glass. Oven doors, improvement in George W. Eddy Waterford, N. Y. Feb. 10, 1846 Ovens, double in chimneys Reuben Bacon & Wm. E. Marshall Walpole, N. H. Feb. 9, 1831 Ovens, elevated, combined with cooking and other stoves Ovens, elevated, combined with cooking stoves. Ovens, elevated, combined with cooking stoves. Ovens, flue, door J. W. Williston & W. West Poultney, Vt. Ovens, elevated, used on cooking stoves. Ovens, heating by anthracite. F. C. Treadwell Brooklyn, N. Y. Dec. 30, 1841 Ovens, perpetual J. A. Pitts Winthrope, Me July 2, 1836 Ovens, perpetual Jan. 17, 1897 Ovens, perpetual Jan. 18, 1818 Ovens, perpetual, rotary J. L. D. Mathies Rochester, N. Y. Dec. 21, 1831 Ovens, portable William Goddard Portsmouth, N. H. Oct. 12, 1831 Ovens, portable, combined with stoves Charles Vale David Hull Usica, N. Y. Mar. 28, 1834 Ovens, portable, combined with stoves Charles Vale New York April 26, 1835 Ovens, portable, combined with stoves Charles Vale New York April 26, 1835 Ovens, portable, combined with stoves Charles Vale New York April 20, 1839 Ovens, portable, combined with stoves Charles Vale New York April 20, 1839 Ovens, portable, combined with stoves Charles Vale New York April 20, 1839 Ovens, portable, combined with stoves Charles Vale New York April 20, 1839 Ovens, portable, combined with stoves Charles Vale New York April 20, 1839 Ovens, portable, combined with stoves Charles Vale New York April 20, 1839 Ovens, portable, combined with stoves Charles Vale New York April 20, 1839 Ovens, portable, combined with stoves Charles Vale New York April 20, 1839 Ovens, portable, combined with stoves Charles Vale New York April 20, 1830 Ovens, portable, combined with stoves Char		Elm Monder	Nowhfold Man	Anni) 5 1998
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Ovens, elevated, combined with cooking and other stoves. Ovens, elevated, valves for. Ovens, elevated, combined with cooking stoves. Ovens, elevated, used on cooking stoves. Ovens, flue, door. Ovens, heating frooms. Ovens, heating rooms. Ovens, perpetual. Ovens, portable. Ovens, portable. Ovens, portable, combined with stoves. Aug. 28, 1841 West Poultney, Vt. June 11, 1842 Brandon, Vt. Aug. 28, 1841 West Poultney, Vt. June 11, 1842 Brandon, Vt. Aug. 28, 1841 West Poultney, Vt. June 11, 1842 Brandon, Vt. Aug. 28, 1841 West Poultney, Vt. June 11, 1842 Brandon, Vt. Aug. 28, 1841 West Poultney, Vt. June 11, 1842 Brandon, Vt. Aug. 28, 1841 West Poultney, Vt. June 11, 1842 Brandon, Vt. Aug. 28, 1841 West Poultney, Vt. June 11, 1842 Dec. 30, 1841 Brooklyn, N. Y. June 16, 1836 Winthrope, Me July 2, 1836 Jan. 17, 1897 Dec. 4, 1806 William T. Hunter New York. June 21, 1831 New York. Aug. 28, 1841 Aug. 28, 1841 Vest Poultney, Vt. June 11, 1842 Ot. 1, 1842 Ot. 1, 1844 Northampton, Mass. Ot. 1, 1897 Dec. 30, 1841 Brandon, Vt. June 11, 1842 Dec. 30, 1841 Brandon, Vt. June 11, 1842 Ot. 1, 1845 Wistrandon, Vt. June 11, 1842 Dec. 30, 1841 Brandon, Vt. June 11, 1842 Dec. 4, 1806 Dec. 4, 1806 Portsmouth, N. H. Oct. 12, 1831 New York. April 26, 1826 Ovens, portable, bake. David Hull. Utica, N. Y. Mar. 28, 1834 Nov. 7, 1840 New York. April 26, 1826 Ovens, portable, bake. David Hull. New York. April 26, 1				Feb. 10, 1846
Ovens, elevated, combined with cooking and other stoves			Wateriord, IV. I	100. 10, 1010
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cooking and other stoves	Ovens, elevated, combined with		wapolo, 200 220000	
Ovens, elevated, valves for		Samuel B. Spaulding .	Brandon, Vt.	Aug. 28, 1841
Ovens, elevated, combined with cooking stoves. Ovens, elevated, used on cooking stoves. Ovens, flue, door. Ovens, heating by anthracite. Ovens, heating rooms. Ovens, heating rooms. Ovens, perpetual. Ovens, perpetual. Ovens, perpetual. Ovens, perpetual. Ovens, portable. Ovens, portable, combined with stoves. Ovens, portable, combined with stoves. Ovens, railway. Ovens, reflecting. *Antedated April 4, 1845. Eli C. Robinson. Troy, N. Y. Dec. 30, 1841 Troy, N. Y. Northampton, Mass. Northampton, Mass. Northampton, Mass. Ovt. 15, 1891 Dot. 19, 1836 Ovt. 15, 1891 Ovt. 15, 1891 Dot. 17, 1836 Ovt. 15, 1891 Ovt. 16, 1836 Ovt. 15, 1891 Ovt. 16, 1836 Ovt. 16, 1836 Ovt. 16, 1837 New York. New York. Nov. 7, 1840 New York. New York. Nov. 7, 1840 Ovens, reflecting. Ovens, reflecting. Antedated Jan. 29, 1844 Elissued Dec. 16, 1835				
cooking stoves			, , ,	•
Ovens, elevated, used on cooking stoves. Ovens, flue, door		Eli C. Robinson	Trov. N. Y	Dec. 30, 1841
Stoves. A. Arnold				, , , , , , , , , , , , , , , , , , ,
Ovens, flue, door	· · · · · · · · · · · · · · · · · · ·		Northampton, Mass.	Aug. 25, 1840
Ovens, heating by anthracite. F. C. Treadwell. Brooklyn, N. Y. June 16, 1836 Ovens, heating rooms. J. A. Pitts. Winthrope, Me. July 2, 1836 Ovens, heating rooms. Michael B. Poiteaux. Richmond, Va. Jan. 17, 1897 Ovens, perpetual. James Deneale. Dumfries, Va. Dec. 4, 1806 Ovens, perpetual. J. L. D. Mathies. Rochester, N. Y. Dec. 4, 1806 Ovens, portable. William T. Hunter. New York. April 26, 1828 Ovens, portable. William Goddard. New York. April 26, 1828 Ovens, portable, bake. David Hull. Utica, N. Y. Mar. 28, 1834 Ovens, portable, combined with stoves. Thaddeus B. Curtis. New Haven, Ct. June 27, 1839 Ovens, portable, rotary. Richard Wilcox. New York. April 20, 1820 Ovens, portable, rotary. Richard Wilcox. New York. April 20, 1820 Ovens, reflecting. C. D. Van Allen. Pen Yan, N. Y. Mar. 31, 1836 *Antedated April 4, 1845. † Antedated Jan. 29, 1844. † Reissued Dec. 16, 1835.	Ovens, flue, door			Oct. 15, 1821
Ovens, heating rooms J. A. Pitts				
Ovens, perpetual. Villiam T. Hunter. New York. Jan. 8, 1810 New York. Dec. 21, 1831 Ovens, portable. Ovens, portable. Ovens, portable, bake. Ovens, portable. Ovens, portable, combined with stoves. Edward Gosselin. Edward Gosselin. Rew York. Jan. 8, 1810 Rechester, N. Y. Dec. 21, 1831 Ovet. 12, 1831 Newark, N. J. June 26, 1835 New Haven, Ct. June 27, 1839 Ovens, portable, rotary. Edward Gosselin. New York. Nov. 7, 1840 Novens, railway. Ovens, railway. Ovens, railway. Ovens, reflecting. *Antedated April 4, 1845. *Antedated Jan. 29, 1844. *Reissued Dec. 16, 1835.			Winthrope, Me	July 2, 1836
Ovens, perpetual. Villiam T. Hunter. New York. Jan. 8, 1810 New York. Dec. 21, 1831 Ovens, portable. Ovens, portable. Ovens, portable, bake. Ovens, portable. Ovens, portable, combined with stoves. Edward Gosselin. Edward Gosselin. Rew York. Jan. 8, 1810 Rechester, N. Y. Dec. 21, 1831 Ovet. 12, 1831 Newark, N. J. June 26, 1835 New Haven, Ct. June 27, 1839 Ovens, portable, rotary. Edward Gosselin. New York. Nov. 7, 1840 Novens, railway. Ovens, railway. Ovens, railway. Ovens, reflecting. *Antedated April 4, 1845. *Antedated Jan. 29, 1844. *Reissued Dec. 16, 1835.			Richmond, Va	Jan. 17, 1897
Ovens, perpetual William T. Hunter. New York Jan. 8, 1816 Ovens, portable Frs. L. Hedenberg New York April 26, 1828 Ovens, portable Charles Vale Newark, N. J. June 26, 1835 Ovens, portable David Hull Utica, N. Y Mar. 28, 1834 Ovens, portable Thaddeus B. Curtis New Haven, Ct. June 27, 1839 Ovens, portable, combined with stoves Edward Gosselin New York			Dumfries, Va	Dec. 4, 1806
Ovens, perpetual, rotary J. L. D. Mathies Rochester, N. Y. Dec. 21, 1831 Ovens, portable William Goddard Portsmouth, N. H. Oct. 12, 1831 Ovens, portable Charles Vale. New York Mar. 28, 1834 Ovens, portable, bake. David Hull. Utica, N. Y. Mar. 28, 1834 Ovens, portable, combined with stoves. Edward Gosselin. New Haven, Ct. June 27, 1839 Ovens, portable, rotary. Edward Gosselin. New York. Nov. 7, 1840 Ovens, portable, rotary. Sewall Short. Nantucket, Mass. Oct. 6, 1837 Ovens, reflecting. C. D. Van Allen Nantucket, Mass. Mar. 31, 1836 *Antedated April 4, 1845. † Antedated Jan. 29, 1844. † Reissued Dec. 16, 1835.	Ovens, perpetual	William T. Hunter	New York	Jan. 8, 1010
Ovens, portable		J. L. D. Mathies	Rochester, N. Y	Dec. 21, 1831
Ovens, portable. William Goddard Portsmouth, N. H. Oct. 12, 1831 Ovens, portable. Charles Vale. Newark, N. J. June 26, 1835 Ovens, portable, bake. David Hull. Utica, N. Y. Mar. 28, 1634 Ovens, portable, combined with stoves. Thaddeus B. Curtis. New Haven, Ct. June 27, 1839 Ovens, portable, rotary. Edward Gosselin. New York. Nov. 7, 1840 Ovens, portable, rotary. Sewall Short. New York. April 20, 1830 Ovens, railway. Sewall Short. Nantucket, Mass. Oct. 6, 1837 Ovens, reflecting. C. D. Van Allen. Pen Yan, N. Y. Mar. 31, 1836 *Antedated April 4, 1845. † Antedated Jan. 29, 1844. † Reissued Dec. 16, 1835.		Frs. L. Hedenberg	New York	April 26, 1025
Ovens, portable, bake. David Hull. Utica, N. Y. Mar. 28, 1834 Ovens, portable. Thaddeus B. Curtis. New Haven, Ct. June 27, 1839 Ovens, portable, combined stoves. Edward Gosselin. New York. Nov. 7, 1840 Ovens, portable, rotary. Richard Wilcox. New York. April 20, 1820 Ovens, railway. Sewall Short. Nantucket, Mass. Oct. 6, 1837 Ovens, reflecting. C. D. Van Allen. Pen Yan, N. Y. Mar. 31, 1836 *Antedated April 4, 1845. † Antedated Jan. 29, 1844. † Reissued Dec. 16, 1835.		William Goddard	Portsmouth, N. H	Oct. 12, 1831
Ovens, portable, bake. David Hull. Utica, N. Y. Mar. 28, 1834 Ovens, portable, combined with stoves. With stoves. New Haven, Ct. June 27, 1839 Ovens, portable, rotary. Cichard Wilcox. New York. Nov. 7, 1840 Ovens, portable, rotary. Richard Wilcox. New York. April 20, 1820 Ovens, railway. Co. Nantucket, Mass. Oct. 6, 1837 Ovens, reflecting. C. D. Van Allen Pen Yan, N. Y. Mar. 31, 1836 *Antedated April 4, 1845. † Antedated Jan. 29, 1844. † Reissued Dec. 16, 1835.	Ovens, portable		Newark, N. J	
Ovens, portable, combined with stoves		David Hull	Utica. N. Y	Mar. 28, 1834
Stoves			New Haven, Ct	June 27, 1839
Ovens, portable, rotary Richard Wilcox New York April 20, 1820 Ovens, railway Sewall Short Nantucket, Mass Oct. 6, 1837 Ovens, reflecting C. D. Van Allen Pen Yan, N. Y Mar. 31, 1836 *Antedated April 4, 1845 † Antedated Jan. 29, 1844 ‡ Reissued Dec. 16, 1835				1010
Ovens, railway	stoves	Edward Gosselin	New York	Nov. 7, 1840
Ovens, railway	Ovena, portable, rotary	Richard Wilcox	New York	April 20, 1820
* Antedated April 4, 1845. † Antedated Jan. 29, 1844. † Reissued Dec. 16, 1825.	Ovens, railway	Sewall Short	Nantucket, Mass	Oct. 6, 1891
* Antedated April 4, 1845. † Antedated Jan. 29, 1844. † Reissued Dec. 16, 1825.	Ovens, reflecting	C. D. Van Allen		
Additional improvement, April 25, 1839. 6 Antedated April 1, 1843	* Antedated April 4, 1845.	Antedated Jan. 29, 1844	Reissued De	c. 16, 1895.

Ovens, revolving	Benjamin Ames. John Hurd, jr. Stephen J. Gold. Stephen Harris. David W. Barker. William Lewis. J. Swift Gold. Herbert K. Simpson Nathan P. Kingsley Abiram Spauldin. John Brereton. Moses Pond. Herbert H. Stimpson Moses Pond. Jordan L. Mott. John P. Hayes Moses Pond. H. H. Stimpson Ebenezer Barrows. Ambr. W. Thompson Julius Fink. G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar. Washburn Race E. Barrows. Ezra Whitman, jr.	Boston, Mass. Cornwall, Ct. Norfolk, Va Clyde, N. Y. Franklin, N. Y. Soston, Mass. Boston, Mass. Philadelphia, Pa	June 25, 1836 Nov. 10, 1829 Mar. 29, 1834 Dec. 5, 1825 July 29, 1837 Jan. 6, 1832 Dec. 16, 1833 Mar. 14, 1840 Oct. 11, 1841 Nov. 12, 1841 April 21, 1842 May 17, 1844 May 29, 1845 Nov. 1, 1845 Aug. 26, 1846 Oct. 29, 1846 July 18, 1840 Mar. 20, 1844 April 10, 1844 May 30, 1846 June 20, 1846 June 20, 1846 April 4, 1844 April 4, 1846
Ovens, with reflectors Ovens, retaining, for baking and cooking Ovens, for stoves Ovens, for stoves Ovens, for stoves Ovens, tin, bake Ovens, union* Ranges, cooking Ranges, kitchen Reflectors, metallic Register for stove, self-acting Register, for heating furnace Roasting jack Roasting jack Roasting jack Roasting meat Screen, fire Screening or sifting coal Screening or riddle, for separating	John Hurd, jr	Boston, Mass. Cornwall, Ct. Norfolk, Va Clyde, N. Y. Franklin, N. Y. Soston, Mass. Boston, Mass. Philadelphia, Pa	Mar. 29, 1834 Dec. 5, 1825 July 29, 1837 Jan. 6, 1832 Dec. 16, 1833 Mar. 14, 1840 Oct. 11, 1841 April 21, 1842 May 17, 1844 May 29, 1845 Aug. 26, 1846 Oct. 29, 1846 Oct. 29, 1846 Oct. 29, 1846 May 16, 1849 Mar. 20, 1844 April 10, 1844 May 30, 1846 June 20, 1846 April 4, 1846 May 28, 1846 May 28, 1846
Ovens, retaining, for baking and cooking	Stephen J. Gold Stephen Harris David W. Barker William Lewis J. Swift Gold Herbert K. Simpson Nathan P. Kingsley. Abiram Spauldin John Brereton Moses Pond Herbert H. Stimpson Moses Pond Jordan L. Mott John P. Hayes Moses Pond H. H. Stimpson Ebenezer Barrows. Ambr. W. Thompson. Julius Fink Julius Fink G. E. Waring and R. E. Peterson, adm'r. of A. Wolcott, dec'd. Alonzo Farrar. Washburn Race E. Barrows.	Cornwall, Ct Norfolk, Va Clyde, N. Y Franklin, N. Y New York. Boston, Mass Philadelphia, Pa Philadelphia, Pa Philadelphia, Pa Stamford, Conn Boston, Mass Seneca Falls, N. Y	Mar. 29, 1834 Dec. 5, 1825 July 29, 1837 Jan. 6, 1832 Dec. 16, 1832 Dec. 16, 1832 Dec. 16, 1832 Mar. 14, 1840 Oct. 11, 1841 Nov. 12, 1841 April 21, 1842 May 17, 1844 May 29, 1845 Nov. 1, 1845 Nov. 1, 1845 Nov. 26, 1846 Oct. 29, 1846 May 16, 1846 Oct. 29, 1846 May 16, 1846 May 30, 1846 July 18, 1840 July 18, 1840 June 20, 1844 April 4, 1846 May 28, 1846 May 28, 1846
cooking. Downs, revolving. Downs, for stoves. Downs, tin, bake. Downs, union* Ranges, cooking. Ranges, kitchen. Register for stove, self-acting. Register, for heating furnace. Roasting jack. Roasting jack. Roasting meat Soreen, fire. Screens for lifting, coal, grain, &c. Screening or sifting coal. Screening or riddle, for separating	Stephen Harris. David W. Barker. William Lewis. J. Swift Gold. Herbert K. Simpson Nathan P. Kingsley Abiram Spauldin. John Brereton. Moses Pond. Herbert H. Stimpson Moses Pond. Jordan L. Mott. John P. Hayes. Moses Pond. H. H. Stimpson Ebenezer Barrows. Ambr. W. Thompson Julius Fink. Julius Fink. G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Fartar. Washburn Race E. Barrows.	Norfolk, Va Clyde, N. Y Franklin, N. Y New York. Boston, Mass. Boston, Mass. New York, N. Y. Boston, Mass. Boston, Mass. Boston, Mass. Boston, Mass. New York Boston, Mass. New York Boston, Mass. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Stamford, Conn. Boston, Mass. Seneca Falls, N. Y. New York, N. Y.	Dec. 5, 1825 July 29, 1837 Jan. 6, 1832 Dec. 16, 1833 Mar. 14, 1840 Oct. 11, 1841 Nov. 12, 1844 April 21, 1842 May 29, 1845 Nov. 1, 1845 Nov. 1, 1845 Nov. 1, 1845 May 16, 1846 July 18, 1840 Mar. 20, 1844 April 10, 1844 May 30, 1846 June 20, 1846 June 20, 1846 April 4, 1846 April 4, 1846 May 28, 1846 May 28, 1846
Ovens, revolving	Stephen Harris. David W. Barker. William Lewis. J. Swift Gold. Herbert K. Simpson Nathan P. Kingsley Abiram Spauldin. John Brereton. Moses Pond. Herbert H. Stimpson Moses Pond. Jordan L. Mott. John P. Hayes. Moses Pond. H. H. Stimpson Ebenezer Barrows. Ambr. W. Thompson Julius Fink. Julius Fink. G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Fartar. Washburn Race E. Barrows.	Norfolk, Va Clyde, N. Y Franklin, N. Y New York. Boston, Mass. Boston, Mass. New York, N. Y. Boston, Mass. Boston, Mass. Boston, Mass. Boston, Mass. New York Boston, Mass. New York Boston, Mass. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Philadelphia, Pa. Stamford, Conn. Boston, Mass. Seneca Falls, N. Y. New York, N. Y.	July 29, 1837 Jan. 6, 1833 Dec. 16, 1833 Mar. 14, 1840 Oct. 11, 1841 Nov. 12, 1841 April 21, 1842 May 17, 1844 May 29, 1845 Nov. 1, 1845 Aug. 26, 1846 Oct. 29, 1846 May 16, 1840 May 16, 1844 May 30, 1846 July 18, 1844 July 18, 1846 Mar. 20, 1844 April 10, 1844 May 30, 1846 June 20, 1846 April 4, 1846 May 28, 1846 May 28, 1846
Ovens, tin, bake Ovens, union* Ranges, cooking Range, cooking Range, cooking Range, cooking Ranges, kitchen Register for stove, self-acting Register, for heating furnace Roasting jack Roasting jack Roasting meat Screen, fire Screens for lifting, coal, grain, &c Screening or sifting coal Screening or riddle, for separating	William Lewis. J. Swift Gold Herbert K. Simpson Nathan P. Kingsley Abiram Spauldin John Brereton Moses Pond Herbert H. Stimpson Moses Pond Jordan L. Mott John P. Hayes Moses Pond H. H. Stimpson Ebenezer Barrows Ambr. W. Thompson Julius Fink G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd Alonzo Farrar Washburn Race E. Barrows Ezra Whitman, ir	Franklin, N. Y. New York. Boston, Mass. Boston, Mass. New York, N. Y. Boston, Mass. Boston, Mass. Boston, Mass. Boston, Mass. Boston, Mass. Row York Boston, Mass. Hoston, Mass. Boston, Mass. Rochester, Mass. Philadelphia, Pa	July 29, 1837 Jan. 6, 1833 Dec. 16, 1833 Mar. 14, 1840 Oct. 11, 1841 Nov. 12, 1841 April 21, 1842 May 17, 1844 May 29, 1845 Nov. 1, 1845 Aug. 26, 1846 Oct. 29, 1846 May 16, 1840 May 16, 1844 May 30, 1846 July 18, 1844 July 18, 1846 Mar. 20, 1844 April 10, 1844 May 30, 1846 June 20, 1846 April 4, 1846 May 28, 1846 May 28, 1846
Ovens, tin, bake Ovens, union* Ranges, cooking Range, cooking Range, cooking Range, cooking Ranges, kitchen Register for stove, self-acting Register, for heating furnace Roasting jack Roasting jack Roasting meat Screen, fire Screens for lifting, coal, grain, &c Screening or sifting coal Screening or riddle, for separating	William Lewis. J. Swift Gold Herbert K. Simpson Nathan P. Kingsley Abiram Spauldin John Brereton Moses Pond Herbert H. Stimpson Moses Pond Jordan L. Mott John P. Hayes Moses Pond H. H. Stimpson Ebenezer Barrows Ambr. W. Thompson Julius Fink G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd Alonzo Farrar Washburn Race E. Barrows Ezra Whitman, ir	Franklin, N. Y. New York. Boston, Mass. Boston, Mass. New York, N. Y. Boston, Mass. Boston, Mass. Boston, Mass. Boston, Mass. Boston, Mass. Row York Boston, Mass. Hoston, Mass. Boston, Mass. Rochester, Mass. Philadelphia, Pa	Dec. 16, 1833 Mar. 14, 1844 Oct. 11, 1841 Nov. 12, 1841 April 21, 1842 Mar. 4, 1842 May 17, 1844 May 29, 1844 Nov. 1, 1842 Aug. 26, 1846 Oct. 29, 1846 May 16, 1844 July 18, 1846 July 18, 1846 July 18, 1846 Mar. 20, 1844 April 10, 1844 April 4, 1844 April 4, 1844 April 4, 1844 April 4, 1846 May 28, 1846
Ovens, union* Ranges, cooking Range, cooking Range, cooking Ranges, kitchen Register for stove, self-acting Register, for heating furnace Roasting jack Roasting jack Roasting meat Sereen, fire Screen, fire Screens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	J. Swift Gold. Herbert K. Simpson Nathan P. Kingsley. Abiram Spauldin. John Brereton Moses Pond. Herbert H. Stimpson Moses Pond Jordan L. Mott John P. Hayes. Moses Pond H. H. Stimpson Ebenezer Barrows. Ambr. W. Thompson Julius Fink Julius Fink. G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar Washburn Race E. Barrows.	New York. Boston, Mass. New York, N. Y Boston, Mass. New York, N. Y Boston, Mass. Boston, Mass. Boston, Mass. Boston, Mass. Rochester, Mass. Rochester, Mass. Philadelphia, Pa	Mar. 14, 1840 Oct. 11, 1841 Nov. 12, 1841 April 21, 1842 Mar. 4, 1842 May 17, 1844 May 29, 1845 Nov. 1, 1845 Nov. 1, 1846 Aug. 26, 1846 July 18, 1840 July 18, 1844 April 10, 1844 April 4, 1844 April 4, 1844 April 4, 1846 April 4, 1846 May 28, 1846
Ranges, cooking Range, cooking Range, cooking Range, cooking Range, kitchen Ranges, cooking Ranges	Nathan P. Kingsley. Abiram Spauldin. John Brereton Moses Pond Herbert H. Stimpson. Moses Pond Jordan L. Mott John P. Hayes Moses Pond H. H. Stimpson. Ebenezer Barrows. Ambr. W. Thompson. Julius Fink. Julius Fink. G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar. Washburn Race E. Barrows.	Boston, Mass. New York, N. Y. Boston, Mass. Stamford, Pa Philadelphia, Pa	Oct. 11, 1841 Nov. 12, 1842 April 21, 1842 Mar. 4, 1842 May 17, 1844 May 29, 1845 Nov. 1, 1844 Aug. 26, 1846 Oct. 29, 1846 May 16, 1846 Mar. 20, 1844 April 10, 1844 May 30, 1846 June 20, 1846 April 4, 1846 April 4, 1846 May 28, 1846
Ranges, cooking Range, cooking Range, cooking Range, cooking Ranges, kitchen Ranges, kitchen Ranges, kitchen Ranges, kitchen Ranges, kitchen Range, kitchen Reflectors, metallic Register for stove, self-acting Register, for heating furnace Roasting jack Roasting jack Roasting meat Soreen, fire Soreens for lifting, coal, grain, &c. Soreening or sifting coal Sieve, or riddle, for separating	Nathan P. Kingsley. Abiram Spauldin. John Brereton Moses Pond Herbert H. Stimpson. Moses Pond Jordan L. Mott John P. Hayes Moses Pond H. H. Stimpson. Ebenezer Barrows. Ambr. W. Thompson. Julius Fink. Julius Fink. G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar. Washburn Race E. Barrows.	Boston, Mass. New York, N. Y. Boston, Mass. Stamford, Pa Philadelphia, Pa	Nov. 12, 1841 April 21, 1842 Mar. 4, 1842 May 17, 1844 May 29, 1845 Nov. 1, 1842 Aug. 26, 1846 Oct. 29, 1846 May 16, 1846 July 18, 1840 Mar. 20, 1844 April 10, 1844 April 4, 1846 April 4, 1846 May 28, 1846
Ranges, cooking Ranges, cooking Ranges, cooking Ranges, cooking Ranges, cooking Ranges, cooking Range, cooking Range, cooking Range, cooking Range, cooking Ranges, kitchen Reflectors, metallic Register for stove, self-acting Register, for heating furnace Roasting jack Roasting meat Soreen, fire Soreen fire Soreens for lifting, coal, grain, &c. Soreening or sifting coal Sieve, or riddle, for separating	John Brereton Moses Pond Moses Pond Jordan L. Mott John P. Hayes Moses Pond H. H. Stimpson Ebenezer Barrows. Ambr. W. Thompson. Julius Fink Julius Fink G. E. Waring and R. E. Peterson, adm?. sof A. Wolcott, dec'd. Alonzo Farrar Washburn Race E. Barrows.	New York, N. Y Boston, Mass Boston, Mass New York Boston, Mass New York Boston, Mass Rochester, Mass Philadelphia, Pa Philadelphia, Pa Philadelphia, Pa Stamford, Conn Boston, Mass Stamford, Conn Stamford, Conn Boston, Mass Seneca Falls, N. Y	April 21, 1842 Mar. 4, 1842 May 17, 1842 May 29, 1844 Nov. 1, 1842 Aug. 26, 1846 Oct. 29, 1846 May 16, 1846 July 18, 1846 Mar. 20, 1844 April 10, 1844 May 30, 1846 June 20, 1846 April 4, 1844 April 4, 1844 April 4, 1844 May 28, 1846
Ranges, cooking	Moses Pond	Boston, Mass	Mar. 4, 1842 May 17, 1844 May 29, 1845 Nov. 1, 1845 Aug. 26, 1846 Oct. 29, 1846 July 18, 1846 July 18, 1844 April 10, 1844 May 30, 1846 June 20, 1846 April 4, 1846 April 4, 1846 May 28, 1846
Ranges, cooking	Herbert H. Stimpson. Moses Pond	Boston, Mass. Boston, Mass. New York Boston, Mass. Boston, Mass. Boston, Mass. Philadelphia, Pa Stamford, Conn Boston, Mass. Seneca Falls, N.Y. New York, N.Y.	May 17, 1844 May 29, 1845 Nov. 1, 1845 Aug. 26, 1846 Oct. 29, 1846 May 16, 1844 July 18, 1844 Mar. 20, 1844 April 10, 1844 June 20, 1844 April 4, 1844 April 4, 1844 May 28, 1846
Ranges, cooking † Ranges, cooking Ranges, cooking Range, cooking Range, cooking Range, cooking Ranges, cooking Ranges, kitchen Ranges, kitchen Ranges, kitchen Ranges, kitchen Range, kitchen Reflectors, metallic Register for stove, self-acting Register, for heating furnace Roasting jack Roasting jack Roasting meat Soreen, fire Soreen, fire Soreens for lifting, coal, grain, &c. Soreening or sifting coal Sieve, or riddle, for separating	Herbert H. Stimpson. Moses Pond	Boston, Mass. Boston, Mass. New York Boston, Mass. Boston, Mass. Boston, Mass. Philadelphia, Pa Stamford, Conn Boston, Mass. Seneca Falls, N.Y. New York, N.Y.	May 17, 1844 May 29, 1845 Nov. 1, 1845 Aug. 26, 1846 Oct. 29, 1846 May 16, 1844 July 18, 1844 Mar. 20, 1844 April 10, 1844 June 20, 1844 April 4, 1844 April 4, 1844 May 28, 1846
Ranges, cooking Ranges, cooking Ranges, cooking Range, cooking Range, cooking Ranges, kitchen	Jordan L. Mott. John P. Hayes Moses Pond H. H. Stimpson Ebenezer Barrows Ambr. W. Thompson Julius Fink G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd Alonzo Farrar Washburn Race E. Barrows Ezra Whitman, ir	New York	May 29, 184; Nov. 1, 184; Aug. 26, 1846; Oct. 29, 1846; May 16, 1844; Mar. 20, 1844; April 10, 1844; April 4, 1844; May 28, 1846; May 28, 1846;
Ranges, cooking Range, cooking Range, cooking Range, cooking Ranges, kitchen Ranges, kitchen Ranges, kitchen Ranges, kitchen Ranges, kitchen Range, kitchen Ranges, ki	Jordan L. Mott. John P. Hayes Moses Pond H. H. Stimpson Ebenezer Barrows Ambr. W. Thompson Julius Fink G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd Alonzo Farrar Washburn Race E. Barrows Ezra Whitman, ir	New York	Nov. 1, 1844 Aug. 26, 1846 May 16, 1840 May 16, 1840 Mar. 20, 1844 April 10, 1844 May 30, 1846 June 20, 1844 April 4, 1844 April 4, 1844 May 28, 1846
Range, cooking Range, cooking Ranges, cooking Ranges, kitchen Ranges, kitchen Ranges, kitchen Ranges, kitchen Ranges, kitchen Range, kitchen Ranges,	John P. Hayes Moses Pond H. H. Stimpson Ebenezer Barrows Ambr. W. Thompson Julius Fink Julius Fink G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd Alonzo Farrar Washburn Race E. Barrows E. Barrows Ezra Whitman, ir	Boston, Mass Boston, Mass Rochester, Mass Philadelphia, Pa Philadelphia, Pa Philadelphia, Pa Stamford, Conn Boston, Mass Seneca Falls, N.Y New York, N. Y	Aug. 26, 1846 Oct. 29, 1844 May 16, 1844 July 18, 1844 April 10, 1844 April 4, 1846 June 20, 1844 April 4, 1844 April 4, 1846 May 28, 1846
Range, cooking Range, cooking Ranges, kitchen Ranges, kitchen Ranges, kitchen Range, kitchen Range, kitchen Range, kitchen Range, kitchen Reflectors, metallic Register for stove, self-acting Register, for heating furnace Roasting jack Roasting meat Soreen, fire Soreen, fire Soreens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	Moses Pond H. H. Stimpson Ebenezer Barrows Ambr. W. Thompson. Julius Fink Julius Fink G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar Washburn Race E. Barrows	Boston, Mass Boston, Mass Rochester, Mass Philadelphia, Pa Philadelphia, Pa Philadelphia, Pa Stamford, Conn Boston, Mass Seneca Falls, N. Y New York, N. Y	Oct. 29, 1846 May 16, 1844 July 18, 1840 Mar. 20, 1844 April 10, 1844 May 30, 1846 June 20, 1844 April 4, 1846 May 28, 1846
Ranges, cooking Ranges, kitchen Ranges, kitchen Ranges, kitchen Ranges, kitchen Range, kitchen Range, kitchen Reflectors, metallic Register for stove, self-acting Register, for heating furnace Roasting jack Roasting meat Screen, fire Screen, fire Screen for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	H. H. Stimpson Ebenezer Barrows. Ambr. W. Thompson Julius Fink. Julius Fink. G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar. Washburn Race E. Barrows.	Boston, Mass Rochester, Mass Philadelphia, Pa Philadelphia, Pa Philadelphia, Pa Stamford, Conn Boston, Mass Seneca Falls, N. Y New York, N. Y	May 16, 1840 July 18, 1844 Mar. 20, 1844 April 10, 1844 May 30, 1840 June 20, 1844 April 4, 1844 April 4, 1844 May 28, 1846
Ranges, kitchen Ranges, kitchen Ranges, kitchen Ranges, kitchen Range, kitchen Range, kitchen Range, kitchen Register for stove, self-acting Register, for heating furnace Roasting jack Roasting meat Safe.—See Fire-proof, Class 2. Screen, fire Screens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	Ebenezer Barrows. Ambr. W. Thompson. Julius Fink. Julius Fink. G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar. Washburn Race E. Barrows.	Rochester, Mass Philadelphia, Pa Philadelphia, Pa Philadelphia, Pa Stamford, Conn Boston, Mass Seneca Falls, N.Y New York, N. Y	July 18, 1840 Mar. 20, 1844 April 10, 1844 May 30, 1840 June 20, 1844 April 4, 1844 April 4, 1844 May 28, 1846
Ranges, kitchen. Ranges, kitchen. Range, kitchen. Range, kitchen. Reflectors, metallic Register for stove, self-acting Register, for heating furnace Roasting jack Roasting meat Safe.—See Fire-proof, Class 2. Bereen, fire Screens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	Ambr. W. Thompson. Julius Fink. Julius Fink. G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar. Washburn Race E. Barrows.	Philadelphia, Pa Philadelphia, Pa Philadelphia, Pa Stamford, Conn Boston, Mass Seneca Falls, N.Y New York, N. Y	Mar. 20, 1844 April 10, 1844 May 30, 1846 June 20, 1846 April 4, 1846 April 4, 1846 May 28, 1846
Ranges, kitchen. Range, kitchen. Range, kitchen. Reflectors, metallic. Register for stove, self-acting Register, for heating furnace Roasting jack. Roasting meat Safe.—See Fire-proof, Class 2. Screen, fire Screens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	Julius Fink. Julius Fink. G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar. Washburn Race E. Barrows. Ezra Whitman, ir.	Philadelphia, Pa Philadelphia, Pa Stamford, Conn Boston, Mass Seneca Falls, N.Y New York, N. Y	June 20, 1844 April 4, 1844 April 4, 1844 April 4, 1846 May 28, 1846
Range, kitchen Range, kitchen Reflectors, metallic Register for stove, self-acting Register, for heating furnace Roasting jack Roasting meat Safe.—See Fire-proof, Class 2 Screen, fire Screens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	Julius Fink G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar Washburn Race E. Barrows Ezra Whitman, ir	Philadelphia, Pa Stamford, Conn Boston, Mass Seneca Falls, N. Y New York, N. Y	June 20, 1846 April 4, 1846 April 4, 1846 May 28, 1846
Range, kitchen	G. E. Waring and R. E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar. Washburn Race	Stamford, Conn Boston, Mass Seneca Falls, N. Y New York, N. Y	June 20, 1846 April 4, 1846 April 4, 1846 May 28, 1846
Reflectors, metallic	E. Peterson, adm'rs of A. Wolcott, dec'd. Alonzo Farrar	Stamford, Conn Boston, Mass Seneca Falls, N. Y New York, N. Y	April 4, 1844 April 4, 1846 May 28, 1846
Register for stove, self-acting Register, for heating furnace Roasting jack Roasting meat Safe.—See Fire-proof, Class 2. Screen, fire Screens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	of A. Wolcott, dec'd. Alonzo Farrar Washburn Race E. Barrows Ezra Whitman, ir	Stamford, Conn Boston, Mass Seneca Falls, N.Y New York, N.Y	April 4, 1844 April 4, 1846 May 28, 1846
Register for stove, self-acting Register, for heating furnace Roasting jack Roasting meat Safe.—See Fire-proof, Class 2. Screen, fire Screens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	Alonzo Farrar Washburn Race E. Barrows Ezra Whitman, ir	Boston, Mass Seneca Falls, N.Y New York, N.Y	April 4, 1844 April 4, 1846 May 28, 1846
Register for stove, self-acting Register, for heating furnace Roasting jack Roasting meat Safe.—See Fire-proof, Class 2. Screen, fire Screens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	Washburn Race E. Barrows Ezra Whitman, ir	Seneca Falls, N.Y New York, N.Y	April 4, 1846 May 28, 1846
Register, for heating furnace Roasting jack	E. Barrows Ezra Whitman, ir	New York, N. Y	May 28, 1846
Roasting jack. Roasting meat Scafe.—See Fire-proof, Class 2. Screen, fire Screens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	Ezra Whitman, ir		
Roasting meat Safe.—See Fire-proof, Class 2. Screen, fire. Screens for lifting, coal, grain, &c. Screening or sifting coal. Sieve, or riddle, for separating	THE PARTY OF THE PROPERTY OF THE PARTY OF TH		A DELL'UN INTA
Safe.—See Fire-proof, Class 2. Screen, fire	Samuel Pierce	New York city	April 28, 1834 July 12, 1836
Screen, fire	Sumuci I lores i I i i i i	Tiem Tork caty	July 12, 1000
Screens for lifting, coal, grain, &c. Screening or sifting coal Sieve, or riddle, for separating	Caleb Pierce	Salem, Mass	April 29, 1829
Screening or sifting coal Sieve, or riddle, for separating	Elisha D. Payne and		11pin 20, 1020
Sieve, or riddle, for separating	Enos Woodruff		April 19, 1841
Sieve, or riddle, for separating	Benj. S. Hort		Feb. 7, 1842
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ashes from cinders	John J. Hess	Philadelphia, Pa	Jan. 9, 1834
Sieve, or riddle, for separating coal	Jesse E. Dow. Wm.	,	, , , , , ,
from dirt.	M. Edwards, & Sam.		
	Davis	Charlestown, Mass.	Mar. 27, 1834
Sifter, wire, rolling	Nathan Sellers		Aug. 16, 1820
labs, for fire-brick and stoves.		,,	1145. 10, 104
	Joseph Putnam	Salem, Mass	Ang. 90, 1835
moke, conductor	John C. Teale	New York	
	John Acoff		
moke, consuming	Nathan Lockling	Sparta N. V	Mar. 4, 183
	Silas Smith		
Spit, turner	Samuel Morey	Oxford N V	Jan. 26, 1793
Steam generator, portable	Stephen Atwater	Rochester N V	Tan 90 184
	B. F. Gold		
Steaming and mashing apples	John Dimm	Greenwood Pa	Dec. 1, 1837
Stoves	James M. Callmont	Gitten wood, I ditti	Feb 90 170
Stoves	Thomas Hirst	Penneylvania	Mar 11 170
Stoves	John W. Godfrey and		
	Wm. Lane		July 14 1700
Stoves	William Henderson	Connecticut	Feb 19 120
Stoves	Henry Abbet	Penneulvania	May 4 190
Stoves	Samuel Dickey	Ovford Pa	Mar 7 100
loves	Tames False	Naumort D I	Feb 00 1904
Stoves	Angustus Crohom	Frederickton Md	Now & 100
tower		Warmouth N T	Mar 0 101
Stoves	William Water	TA CALLORING TATE 1	WINE. 2, 101

^{*} Reissued Aug. 6, 1838. † Reissued Aug. 8, 1846.

ESPECIAL OR DECOVERED.	PATHITHIA.	remonics.	WHEN SOME	æĐ.
Steves	Nich. Lloyd	Philadelphia, Pa	Feb. 29, 1	LON
Stoves	Alfred Janes.	Hartford, Conn	Mar. 1,	
Stoves	George Warrall	Philadelphia, Pa	Mar. 30, 1	
Stoves	William T. James	Union Village, N. Y.	April 26,	
Stoves	Charles Postley	New York	April 26,	181
Stoves	Aaron Lane	New York	May 11, 1	181
Stoves	Comfort Barney	Warren, R. I	Dec. 27, 1	181
Stoves	Eliakim Corey	Milton, N. Y	May 30, 1	
Stoves	Thos. & Isaac Power.		Aug. 31, 1	
Stoves	Henry L. Leibenace	New York		181
Stoves	James Ross	Elizabethtown, N. J.	Dec. 3, 1	181
Stoves	Anthony B. Martin	Hagerstown, Md	Dec. 26, 1	181
Stoves	Joseph P. Simpson	New York	April 5, 1	1817
Stoves	Ephraim Treadwell	Boston, Mass	April 26, 1	1817
Stoves	Burgess Allison	Philadelphia, Pa	April 10, 1	1818
Stoves	Robert & John Mount		April 11, 1	
Stoves	Aaron Lane	New York	Sept. 15, 1	1818
Stoves	James Barron	Norfolk, Va	May 14, 1	182
Stoves	B. Seymour and A. C.			
	Battis	Utica, N. Y	May 25, 1	
Stoves	John Tasker	Philadelphia, Pa		1823
Stoves	Louis Gourjou	Philadelphia, Pa	Sep. 22, 1	1823
Stoves	Thomas Woolson	Claremont, N. H	July 20, 1	
Stores	Powel Stackhouse	Philadelphia, Pa	Dec. 22, 1	1831
Stoves	Nathan Parrish	Mendon, N. Y	Nov. 2, 1	
Stoves*	Jordon L. Mott	New York	Dec. 30, 1	
Stoves	George J. Payne	Borough of Erie, N.Y		
Stoves	Jordon L. Mott	New York	July 21, 1	1835
Stoves	Daniel West & Ferdin-			
_	and Von Sickle	Hudson, N. Y	July 21, 1	
Stoves	Wm. M. Carmichael .	Hempstead, N. Y		
Stoves	John H. B. Swanzey .	Lynn, Mass	Mar. 30, 1	1930
Stoves	Frazier, Blanchard and	A7 37 1	A = -3 00 1	1000
Ct.	Gill	New York	April 20, 1	1030
Stoves	Fred. A. Fickhardt	Eaton, Pa		
Stoves	Nathaniel Russell	Waterville, Maine.	Tules 0 1	
Stoves	Howell Parmalee	Watervleit, N. Y	July 2, 1	
Stoves		Grafton, Mass		
Stoves	Phineas Gillet	New Hartford, Conn		
	James Miller	Baltimore, Md	Oct. 16, 1	1000
Stoves	R. Merchant	Guilford, N. Y	July 16, 1	1849
Stoves	George Nelson	Boston, Mass		
Stoves	Stedman W. Hanks	Lowell, Mass		
Stoves	Philetus Phillips	Middlet'n Point, N J		
Stoves	Reuben Elmendorf	Kingston, N. Y		
Stoves	James Taylor	Peekskill, N. Y		1843
Stoves	Richard W. Belson	Danville, Pa		1843
Stoves	James Robb	Lewistown, Pa		1843
Stoves, design for	A. Whitney	Albany, N. Y	July 19, 1	
Stoves, design for		New York	Feb. 12 1	
Stove, design for	Low, Chollar & Jones,			
200.00, 200.00.00.00.00.00.00.00.00		Troy, N. Y	Nov. 19, 1	1545
Stove, design for	Leake & Low, assignee		,	
.,	of Addison Low		Feb. 12. 1	1845
Stove, design for	Charles S. Hine			
Stoves	John Morrison			
Stoves	Samuel Utter			1845
Stoves	Francis L. Hedenburg			1845
Stoves	Jehiel T. Ferrand			1845
Stoves	Peter J. Clute			
Stove, design for		Poultney, Vt	Oct. 16, 1	
AMEDIO, UCBAÇII IDI	1 TOM A MAINCA			
Stove, design for	Rathbone & Co., assig-	Touriney, various.	20, 2	

^{*} Raissued Aug. 8, 1846. † Antedated Dec. 1, 1843.

		 	
MATERIAL OR DESCRIPTION.	PASSES 1	MANDENNIS.	WHEN MEET.
Stove, design for	David Root	Cincinnati, Ohio	Sept 9, 1845
	Johnson Geer & Cox,	Cinamiau, Cinto	Deps 9, 1040
Stove, design for	ass'ness of E. Ripley	Troy, N. Y	Oct. 16, 1845
Store design for			Sept. 9, 1845
Stove, design for	E. P. Penniman	Rochester, N. Y	
Stove, design fort	J. S. & M. Peckham	Utica, N. Y	Oct. 16, 1845
Stove, design for	John Bt. Clute	Schenectady, N. Y	May 28, 1846
Stove, design for	Goodhue and Guild	Cincinnati, Ohio	Aug. 18, 1846
Stove, design for	William P. Cresson, assignee of Stuart &	Dhiladalahia Da	T 05 1946
Share desire Con	Beesley	Philadelphia, Pa	July 23, 1040
Stove, design for	Wm. P. Cresson, assignee of Stuart, Bees-	Philadelphia, Pa	Ont 3 1846
Store Janion for	ley & Sailor	r manespina, ra	Oct. 3, 1846
Stove, design for	S. S. Jewett and F. H. Root.	Buffalo, N. Y	Oct. 3, 1846
Stove, design for			
~	Root	Buffalo, N. Y	Oct. 3, 1846
Stove, design for		Peeksville, N. Y	June 27, 1846
Stove, design for	Samuel Hanley assign-		
	or to Dunham & Co.		
Stove, design for	James Wager	Troy, N. Y	Oct. 10, 1846
Stove	Loftis Wood	Troy, N. Y New York, N. Y	Aug. 28, 1846
Stove	O. S. Hartshorn, H.M.	·	
	Payson, and A. Ring	Portland, Maine	Sept. 3, 1846
Stove, design for	J. S. and M. Peckham		Oct. 3, 1846
Stove, design for	J. S. and M. Peckham		
Stove, design for	William Jackson	Syracuse, N. Y	
Stove, design for!		Troy, N. Y	July 25, 1846
Stove, design for		Troy, N. Y	July 25, 1846
Stove, design for		1109, 24. 2	July 20, 1040
Stove, design for		Trov N V	Oct. 3, 1846
Sterne design forth	signee of E. Ripley.	Troy, N. Y	
Stove, design for		Rochester, N. Y	Jan. 20, 1040
Stove, design for	Vose, assignees of	1	T 1 10 1040
	William Shaw	Albany, N. Y	July 10, 1846
Stove, design for	J. F. Seymour, ass'gee	1	
	of L. O. Palmer	Utica, N. Y	Oct. 10, 1846
Stove, design for	J. F. Seymour, ass'gee of L. O. Palmer	Utica, N. Y	Oct 10, 1846
Stove, design for	Annes A. Lincoln	Norton, Mass	Dec. 22, 1846
Stove, design for	George M. Norton	Rochester, N. Y	July 25, 1846
Stove, design for		Le Roy, N. Y	July 25, 1846
Stove, design for §	Barber and Hoffman	Bridgeton, N. J	July 10, 1846
Stove, design for		Troy, N. Y	July 10, 1846
Stores einfunnel		Albany, N. Y	Aug. 18, 1846 May 18, 1897
Stoves, air funnel		Randolph, Mass	May 18, 1827 April 16, 1842
Stoves, air heating		Norwalk, Ohio	
Stoves, air heating		Housatonic, Mass.	Feb. 20, 1843
Steves, air heating and cooking		Springfield, Mass	Mar. 16, 1844
Stoves, air tight**		Georgetown, D. C.	Jan. 20, 1836
Stoves, air tight	Thomas M. Jones	Boston, Mass.; now in England	Aug. 11, 1841
Stoven, air tight	Stephen M. Allen		Jan. 17, 1842
Stoves, air tight	Zephaniah Bosworth.		April 6, 1842
Stoves, air tight			
Stoves, air tight, design for			
	signee of A. Atwood		July 14, 1845
Stove, air tight, design for		Albany, N. Y	July 10 1846
	John Cline	Norwalk Ohio	Jan & 1940
Stoves, air tight	Harned and Elliste	Norwalk, Ohio	U, 1042
proves, air agut, sen-regusting			
	signees of Saxton and	Dhiladalphia Da	04 20 1944
Grand distribute A many	Elliot	Philadelphia, Pa	
Stoves, air tight, or Arnott's stoves	losebu F. Lisk	Saicin, iviass	1404. 3, 1041
	1	125	

^{*}Antedated Aug. 14, 1845. † Antedated Sept. 6, 1845. † Antedated May 23, '46. | Antedated May 18, 1846. † Antedated June 26, 1846. † Reissued November 18, 1846.

THYENTIONS OR DISCOVERIES.	PATENTOS.	. 2200	Within Mitted.
Stoves, air warmer	J. J. Heintzelman	Philadelphia, Pa	June 16, 1836
Stoves, anthracite			
Stoves, anthracite coal			
Stoves, anthracite coal			
Stoves, anthracite coal*		Schenectady, D. I	VCL 25, 1832
Stoves, anthracite coal	James Atwater		
Stoves, anthracite coal			
Stoves, anthracite coal			
Stoves, anthracite coal		Hartford, Conn	June 2, 1836
Stoves, anthracite coal	Aaron O. Price	Newark, N. J	June 14, 183
Stoves, anthracite coal	Jordon L. Mott	New York City	July 22, 183
Stoves, anthracite, ashpit, closing	Eliphalet Nott	Schenectady, N. Y.	June 29, 1833
Stoves, anthracite, brick	Eliphalet Nott	Schenectady, N. Y	June 29, 1833
Stoves, anthracite, combination	James Atwater	New Haven, Conn	Aug. 23, 1833
Stoves, anthracite, damper, and			
handle	Eliphalet Nott	New Haven, Conn	June 29, 1833
Stoves, anthracite, lining	Eliphalet Nott	New Haven, Conn	June 29, 1833
Stoves, anthracite, moveable, flat.	Eliphalet Nott	New Haven, Conn	June 29, 1833
Stoves, anthracite, mica, sashes for			
Stoves, anthracite, sectional tops	Eliphalet Nott		
Stoves, anthracite, vertical grate	Eliphalet Nott		
Stoves, anthracite, wrought iron for			
Stoves, apparatus for regulating the		,	·
heat of	Samuel D. Tillman	Seneca Falls, N. Y	April 17, 1844
Stoves, ash pit of	William Butcher		
Stoves, or bakers' for cooking pur-	William Bulonel III	z miadorpina, z at t t	50, 1010
poses	Matthew Stewart	Philadelphia Pa	Inly 93 1841
Stove, box, design for t	John F. Rathbone	Albert N V	July 10 1946
	John F. Rathbone	Albany N V	Inly 10, 1040
Stove, box, design for	Samuel D. Vose	Albany N V	July 10, 1040
Stove, box, design for			
Stoves, box hearths	William T. James		
stoves, for carriages	AlexanderMc Williams		
Stoves, cast iron	Robert Hetterick		
toves, chimney	Charles Varlé	r redericktown, Ma.	July 1, 1814
Stoves, and chimney, construction		D C . 1 Main	D. 20 1000
of	Asa Graham	Rumford, Maine	Dec. 28, 1832
Stoves, chimney, furnaces, and		D	TI 10 1000
steam engines	John J. Giraud	Baltimore, Md	Feb. 10, 1828
toves, chimney, rarifying	George Rogers	Northampton, Mass.	Dec. 18, 1816
toves, close	William Beach	Philadelphia, Pa	Oct. 19, 1838
Stoves, coal	Henry Abbett	Pennsylvania	Jan. 24, 1799
Stoves, coal	Abiel Smith	N'th Providence, R.I.	Aug. 27, 1834
Stoves, coal	Henry Stanley	West Poultney, Vt.	Jan. 4, 1845
Stoves, coal	Charles Babcock	East Haddam, Conn.	June 10, 1845
Stoves, coal	Jordan L. Mott	New York	
stoves, coal, applied to furnaces	Eliphalet Nott	Schenectady, N. Y	
stoves, coal or wood	Judson B. Galpin	New Haven, Conn	
Stove columns, design for	Elias Johnson, Gilbert	1	
	Geer, and B. Cox,		
j	assignees of Ezra		
.]	Pinler	Troy, N. Y	Aug 19 1942
Stoves, Columbian	Joshua Talcot and John	2109, 211 21111111	12 mg. 12, 1040
wes, Columbian		Smyrna, N. Y	Tan 96 1904
leamen comical	Stephen C. Roe		
stoves, conical			
stoves, conical	Robert Robertson George F. Hopkins	Non Youls site	June 10, 1030
stoves, construction of	Creorge F. Hopkins	THEM TOLK CITATION	Sept. 6, 1637
toves, construction of	Thomas Miles	riavana, IN. Y	Sept. 25, 1837
stoves, construction of	Henry H. Roath	Norwich, Conn	Nov. 4, 1837
stove, cooking			
tove, cooking			
tove, cooking	John Adams	New York	April 16, 1818
Stove, cooking	James Lamb	Berlin, Ct	July 17, 1818
Stove, cooking	Palmer Jenkins	Hepborn, N. Y	Feb. 16, 1819
	ł	•	•
1		1	

^{*} Reissued Oct. 17, 1835. † Reissued Jan. 7, 1835, and Dec. 4, 1838. † Antedated April 99, 1846. † Antedated March 21, 1846. † Antedated July 15, 1843. ¶ Antedated March 8, 1857.

Stove, cooking	-MOVEMPHONS OR BESCHVERIES.	NATIONAL PARTY NATIONAL	aparances.	with proced.
Stove, cooking Nashan Winslow Portland, Me. May 3, 16	Stove. cooking	Israel Keyes	Putney, Vt.	Feb. 23, 1690
Stove, cooking. Stove, cooking. David Little. Hagarstown, Md. Feb. 1, 16 Stove, cooking. David Little. David Little. David Little. David Little. David Little. Hagarstown, Md. Feb. 1, 16 Stove, cooking. David Little. David Little. David Little. David Little. David Little. Hagarstown, Md. Feb. 1, 16 Stove, cooking. David Little. David Little. David Little. Hagarstown, Md. Feb. 1, 16 Stove, cooking. David Little. David Little. David Little. David Little. David Little. Hagarstown, Md. Feb. 1, 16 Stove, cooking. Alten J Barnitt. Louisville, Ky. June 11, 16 Stove, cooking. Eac. E. Bennet. Sandy Hill, N. Y. July 17, 16 Stove, cooking. Alten J Barnitt. Louisville, Ky. June 11, 16 Stove, cooking. Alten J Barnitt. Louisville, Ky. June 11, 16 Stove, cooking. Lewis & P. Peterson Stove, cooking. Alten J Barnitt. Louisville, Ky. June 11, 16 Stove, cooking. Lewis & P. Peterson Alten J Barnitt. Louisville, Ky. June 11, 16 Stove, cooking. Stove, cooking. Alten J Barnitt. Louisville, Ky. June 11, 16 Stove, cooking. David Mourt Pleasant, O. July 20, 16 Stove, cooking. Henry A. Foot. Dover, N. H. May 2, 18 Stove, cooking. Henry A. Foot. Dover, N. H. Dec. 7, 18 Stove, cooking. Dover, N. H. Dec. 7, 18 Stove, cooking. Lewis Kingsbury. Livonia, N. Y. Sept. 19, 16 Stove, cooking. Dover, Ooking. Dover, N. H. Dec. 7, 18 Stove, cooking. Dover, N. H. Dec. 17, 18 Stove, cooking. Dover, N. H. Dec. 17, 18 Stove, cooking. Dover, N. H. Dec. 17, 18 Stove				
Shove, cooking				
Stove, cooking. Stove, cooking. Alban Fisher. Claremont, N. H. May 9, 18 Stove, cooking. Alban J. Bernitt. Alban J. July 19, 18, 18, 18, 18, 18, 18, 11, 19, 11, 11, 11, 11, 11, 11, 11, 11			Brandon Vt	Dec. 13, 1893
Stove, cooking Robert C. Rouse Athens, N. Y. Jan. 26, 18 Stove, cooking D. G. Garnsey Pomfret, N. Y. Mar. 3, 18 Stove, cooking Abm. Fisher Claremont, N. H. May. 9, 18 Stove, cooking Allen J. Barnitt. Louisville, Ky. June 11, 18 Stove, cooking William Naylor. New York June 11, 18 Stove, cooking John Moore Ackworth, N. H. May. 7, 18 Stove, cooking John Moore Ackworth, N. H. May. 7, 18 Stove, cooking Lewis & P. Peterson Andrew C. Bettis and Eli M. Gibbs Stove, cooking Eli Bates and David Updegraff. Stove, cooking Horse Bartlett. Bridgeport, Ct. May. 12, 18 Stove, cooking Henry A. Foot. Dover, N. H. Dec. 7, 18 Stove, cooking Theodore Budington Bridgeport, Ct. Jan. 25, 18 Stove, cooking Lewis Kingsbury Livonia, N. Y. Spet. 19, 18 Stove, cooking Eliaba Town Montpelier, Vt. Dec. 16, 18 Stove, cooking John G. Treadwell Albany, N. Y. Sapt. 19, 18 Stove, cooking George G. Prentiss Grafton, Mass. Feb. 25, 18 Stove, cooking George G. Prentiss Grafton, Mass. Feb. 25, 18 Stove, cooking George G. Prentiss Grafton, Mass. Feb. 25, 18 Stove, cooking George G. Prentiss Grafton, Mass. Feb. 25, 18 Stove, cooking George G. Prentiss Gr			Hemeretown Md	Feb 1 1896
Stove, cooking		Dahart C. Davis	1 thone N V	Ten 96 1996
Stove, cooking. Stove, cooking. Alen J. Barnitt. Louisville, Ky. June 11, 18 Stove, cooking. Ez. E. Bennet. Sandy Hill, N. Y. July 17, 18 Stove, cooking. Lewis & P. Peterson. Andrew C. Bettis and Eli M. Gibbs. Stove, cooking. Stove, cooking. Stove, cooking. Stove, cooking. Stove, cooking. Horace Bartlett. Bridgeport, Ct. Jan. 25, 18 Stove, cooking. Theodore Budington. Bridgeport, Ct. Jan. 25, 18 Stove, cooking. Lewis Kips. Theodore Budington. Browe, cooking. Lewis Kips. Theodore Budington. Browe, cooking. Lewis Kingsbury. Livonia, N. Y. Stove, cooking. John G. Treadwell. Stove, cooking. Thomas Whitson. Stove, cooking.				
Stove, cooking				
Stove, cooking				
Stove, cooking William Naylor New York June 11, 18 Stove, cooking Ez. E. Bennet. Sandy Hill, N.Y. July 17, 18 Stove, cooking Lewis & P. Peterson Pittsburg, Pa. May 29, 18 Stove, cooking Lewis & P. Peterson Pittsburg, Pa. May 29, 18 Stove, cooking Lewis & P. Peterson Pittsburg, Pa. May 29, 18 Stove, cooking Eli M. Gibbe. Stove, cooking Cooki				
Ez E. Bennet. Sandy Hill, N. Y. July 17, 18				
Stove, cooking		E- E D-	Canda IIII N V	June 11, 1023
Stove, cooking				
Stove, cooking Andrew C. Bettis and Eli M. Gibbs Norwich, N. Y June 22, 16 Stove, cooking Eli Bates and David Updegraff Mount Pleasant, O. July 20, 16 Stove, cooking Horace Bartlett. Boston, Mass. Oct. 1, 18 Stove, cooking Henry A. Foot. Dover, N. H. Dec. 7, 18 Stove, cooking Theodore Budington. Bridgeport, Ct. Jan. 25, 18 Stove, cooking Lewis Kingsbury Livonia, N. Y. Sept. 9, 18 Stove, cooking Lewis Kingsbury Livonia, N. Y. Sept. 9, 18 Stove, cooking John G. Treadwell Montpelier, Vt. Dec. 16, 18 Stove, cooking John G. Treadwell Montpelier, Vt. Jan. 23, 18 Stove, cooking John Harriman. Haverhill, Mass. Mar. 31, 18 Stove, cooking John Harriman. Roxbury, Mass. April 11, 18 Stove, cooking Philo P. Stewart Elyria, Ohio June 3, 18 Stove, cooking Horsee Bartlett Smithfield, R. I. June 3, 18 Stove, cooking John Moffat Buffalo, N. Y. Aug. 13, 18 Stove, cooking Levi Burnell Buffalo, N. Y. Aug. 13, 18 Stove, cooking Levi Burnell Elyria, Ohio June 19, 18 Stove, cooking Levi Burnell Elyria, Ohio Nov. 25, 18 Stove, cooking Levi Burnell Elyria, Ohio Nov. 25, 18 Stove, cooking Levi Burnell Elyria, Ohio Nov. 25, 18 Stove, cooking Levi Burnell Elyria, Ohio Nov. 25, 18 Stove, cooking Levi Burnell Elyria, Ohio Nov. 25, 18 Stove, cooking Levi Burnell Elyria, Ohio Nov. 25, 18 Stove, cooking Levi Burnell Elyria, Ohio Nov. 25, 18 Stove, cooking Levi Burnell Elyria, Ohio Nov. 25, 18 Stove, cooking Levi Burnell Elyria, Ohio Nov. 25, 18 Stove, cooking Elajah Skinner Calmein, Mass. Feb. 25, 18 Stove, cooking Elayard N. Kent Portland, Me April 14, 18 Stove, cooking Elayard N. Kent				
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Stove, cooking	Stove, cooking	Horace Bartlett	Bridgeport, Ct	
Stove, cooking	Stove, cooking	Henry A. Foot	Dover, N. H	
Stove, cooking	Stove, cooking	Theodore Budington	Bridgeport, Ct	Jan. 25, 1833
Stove, cooking	Stove, cooking	Lewis Kingsbury	Livonia, N. Y	Sept. 19, 1833
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Stove, cooking O. Wilson Concord, Mass Mar. 23, 18				
	Stove, cooking	O. Wilson	Concord, Mass	Mar. 23, 1836
Stove, cooking B. H. Pearson Warner, N. H Mar. 31, 18	Store, cooking	B. H. Pearson	Warner, N. H	Mar. 31, 1836
	Stove, cooking	Charles Vale	Newark, N. J	April 13, 1836

^{*} Reissued Sept. 28, 1836.

. SPERMINGER OR RESPECTABLE.	PARRIERGS.	absingson.	Albert Males
hove, cocking	Jonas Kendall, ass'ee		
	of J. Perkins	Ipswich, Mass	April 28, 181
Stove, cooking*	E. G. Currier	Warner, N. H	June 2, 183
Stove, cooking	E. G. Currier	Warner, N. H	June 2, 183
stove, cooking	Charles Higgins	Turner, Me	June 2, 183
Stove, cooking	William A Arnold	Northampton, Mass.	June 16, 183
Stove, cooking	Gould Throp	New York city	June 25, 183
kove, cooking	Thomas Shaw	North Yarmouth Me	
tove, cooking	Sebastian H. Laciar	Mucungy, Pa	June 28, 183
Stove, cooking	P. F. Perry	Rockingham, Vt	June 28, 183
	Beriah Douglass		June 30, 183
Hove, cooking	Asabel Lear	Wendall, N. H	July 1, 183
	E. Andrews & S. Austin	Bradford N H	July 1, 183
kove, cooking			
kove, cooking	Elisha N. Pratt	Albany, N. Y	
Stove, cooking	Chester Granger	Pottsford, Vt.	July 2, 183
stove, cooking	P. C. Traver	West Troy, N. Y	July 2, 183
stove, cooking	Elisha Lyman		July 2, 183
stove, cooking	John Whiting		Oct. 20, 183
Stove, cooking	S. B. Spalding	Brandon, Vt	Nov. 17, 183
Stove, cooking	Benjamin H. Wood	Bath, Steuben co.,	
-	_	N. Y	Jan. 31, 183
Stove, cooking	Abraham T. Mixell	Belvidere, N. Y	July 19, 183
Stove, cooking	Edwin Reed	W. Bridgewater, Mas	July 29, 183
stove, cooking	James Richardson	Poultney. Vt	July 29, 183
Stove, cooking	Sanuel Utter	New York city	Aug. 8, 183
Reve, cooking	James Wilson		Aug. 15, 183
Stove, cooking	John S. Leavitt	Turner, Me	Aug. 31, 188
kove, cooking	Elijah Skinner	Sandwich, N. H	Oct. 18, 183
Kove, cooking	James N. Olney	New York city	Nov. 20, 183
Rove, cooking	David Hastings & So-	THEM TOTA CITY	1101. 20, 100.
move, cooking	lomon Sikes	Doorfold Mass	Nov. 23, 1837
la analisma	Nathaniel Walker	Deerfield, Mass	
stove, cooking		Dighton, Mass	
kove, cookingt	Jona'n C. Hathaway .		Dec. 1, 103
kove, cooking	Jeese Hutchinson, jr.	Lynn, Mass	.Dec. 20, 1837
kove, cooking	Carington Wilson, jr.	New York city	Dec. 29, 1837
kove, cooking	E. L. Parsbley and B.		
	Furbish	Brunswick, Me	Jan. 9, 1838
Steve, cooking	Horace V. Teall	Canajoharie, N. Y.	Jan. 20, 1836
Stove, cooking ∦	Jefferson Cross	Eaton, N. Y	June 27, 1838
stove, cooking	Garet G. Hermance	Poughkeepsie, N. Y.	July 24, 1838
Move, cooking	Simeon Heywood and		-
	L. P. Fisher	Claremont, N. H	Aug. 29, 1888
Stove, cooking §	Jordon L. Mott	New York city	Sept. 19, 1836
Stove, cooking	Daniel Tisdale	Canton, Mass	Nov. 12, 1836
Stove, cooking	Darius Buck	Albany, N. Y	May 20, 1689
Stove, cooking	Micah Ketcham	Boston, Mass	May 25, 1639
Heve, cooking	Elihu Smith		Aug. 9, 1839
Stove, cooking			Aug. 24, 1839
Stove, cooking	Elbridge McCollum	Weare, N. H	Sept. 20, 1839
Rove, cooking	Noble Peck	Carmel, N. Y	Sept. 30, 1839
Stove, cooking	George D. Boyce	W. Wareham, Mass	Dec. 27, 1839
	William Jeanes		
kove, cooking		Philadelphia, Pa	May 25, 1840
kove, cooking	William Gallup		June 10, 1840
kove, cooking	Samuel W. Cole	Cheisea, Mass,	Aug. 23, 1040
Neve, cooking			Sept. 19, 1840
Stove, cooking 1		woodstock, vt	Sept. 25, 1840
stove, cooking	R. G. Cochran	Francistown, N. H.	Uct. 10, 1840
stove, cooking	James Parmele	Ogden, N. Y	
Stove, cooking	David H. Hilliard	Cornish, N. H	Nov. 26, 1840
Move, cooking	Jordon L. Mott	New York	Dec. 17, 1840
kove, cooking	Wm. Melsheimer	Philadelphia, Pa	Dec. 19, 1849
Hove, cooking	Joel Green	Rochester. N. Y	Dec. 28, 1840
Rove, cooking	Clark H. Robinson	Uniontown. Pa	Feb. 13, 1841
Stove, cooking	M. C. Sadler	Brockport, N. Y.	April 10, 1841
		1849; A. Packard, ass'ee. I. §Disc. Mar. 98, 446. ¶	

INVENTIONS OR DISCOVERIES.	Patentees.	residence.	WEEDS SHOULD.
Stove, cooking	John B. Bissell	Oakville, N: Y	April 16, 1841
Stove, cooking	Hiram Blanchard	Aquackanonk, N. J.	April 27, 1841
Stove, cooking		Woodstock; Vt	Aug. 11, 1841
Stove, cooking	Wm. A. Shepard	Waterville, Me	Aug. 11, 1841
Stove, cooking		Cincinnati, Ohio	Sept. 11, 1841
Stove, cooking	Nelson W. Fisk, ass'ee	Olivanillad, Olivo	Dops. 11, 1011
DUVE, COOKING	of A. D. Fisk	New York	Nov. 10, 1841
Sterre coolding	William B. Zeagler		Feb. 21, 1842
Stove, cooking		Huntington; Pa	April 20, 1842
Stove, cooking	Samuel B. Sexton	Baltimore, Md Troy, N. Y New York, N. Y	Man 4 1040
Stove, cooking	Anson Atwood	No. V. l. N. V	May 4, 1849
Stove, cooking	William Beebe	New Iork, N. I	July 8, 1842
Stove, cooking	Erastus Buck	Nunda, N. Y	Aug. 6, 1849
Stove, cooking	John Curtis	Auburn, N. Y	Jan. 27, 1848
Stove, cooking	James Greer	Dayton, Ohio	May 12, 1843
Stove, cooking	Charles Postley	New York	June 9, 1843
Stove, cooking	Pitner Emmitt	York, Pa	June 14, 1848
Stove, cooking	Albert D. Hart	Pittsfield, Mass	July 8, 1843
Stove, cooking*	Joel Green	Rochester, N. Y	Aug. 11, 1843
Stove, cooking	J. J. Anderson	Putnam, Ohio	Aug. 17, 1843
Stove, cooking	Samuel B. Sexton	Balumore, Md	Sept 23, 1843
Stove, cooking	Henry T. Butler, ass'e		Oct. 18, 1843
	of Laban Eddy	,	
Stove, cooking	Benjamin T. Roney.	Milton, Pa	Oct. 25, 1843
Stove, cooking	Alphens Cooper	Danville, Pa	Oct. 25, 1843
Stove, cooking	John E. Thomas	Albany, N. Y	Nov. 6, 1843
Stove, cooking, design for	Alanson Skinner	Brownsville, N. Y.	Sept. 14, 1843
Stoves, cooking.	James Young & Elmon	Diownsvine, IV. I	50pt. 11, 2010
Stoves, cooking	Parker	Philadelphia, Pa	Feb. 12, 1844
Storms contrined	Jordon L. Mott	New York	Feb. 12, 1844
Stoves, cooking	Simon Peters	Schenectady, N. Y.	Feb. 12, 1844
Stoves, cooking			
Stoves, cooking	S. S. Jones	Philadelphia, Pa	Feb. 20, 1844
Steves, cooking	Ashley Hotchkin	Maryland, N. J	Feb. 29, 1844
Stoves, cooking	Samuel Bentz	Boonsborough, Md. Rochester, N. Y	Mar. 9, 1844 April 4, 1844
Stoves, cooking	Roswell Bush		
Stoves, cooking	Abner Leland	Milton, Pa	
Stoves, cooking	Friedrick Kesselmeier		April 13, 1844
Stoves, cooking	Peter Mills	Binghampton, N. Y.	
Stoves, cooking		Cincinnati, Ohio	June 5, 1844
Stoves, cooking	William & R. P. Re-		
•	sor, assignees of Tho-	a:	T 5 1044
	mas Bent	Cincinnati, Ohio	
Stoves, cooking	James White	Milton, Pa	
Stores, cooking	Calvin Fulton	Rochester, N. Y	June 10, 1844
Stoves, cookingt	John C. Hermance	Schenectady, N. Y.	June 13, 1844
Stores, cooking	Henry W. Camp	Oswego, N. Y	June 24, 1844
Stoves, cocking	James Wager	Trov. N Y	July 9, 1844
Stoves, cooking	James Lewis	Amsterdam, N. Y	Sept. 20, 1844
Stoves, cooking	John W. Riggs	Fort Plain, N. Y	Oct. 30, 1844
Stoves, cooking	James H. Lyon	Schenectady, N. Y.	June 18, 1844
Stoves, cooking	Adam Ketler	Philadelphia, Pa	Dec. 7, 1844
Stoves, cooking	Archibald Wieting	Middletown, Pa	Dec. 16, 1844
Stoves, cooking	William L. Potter	Clinton Park, N. Y.	
Steves, cooking	Charles Wolf	Cincinnati, O	
Stoves, cooking	Robert Wilson	Williamsport, Pa	
Stoves, cooking.	John T. Davy	A 37 77	Mar. 12, 1845
Stoven, cooking	Gould Thorp	New York	Mar. 26, 1845
Stoves, cooking	Henry N. Gros		
Stoves, cooking	Theophilus Smith		Tune 10 1845
Stoves, cooking		~	10, 1010
words, cooking		Troy, New York	July 22, 1845
Stores earling	Cox	Dockerson N V	Any 0 1945
Stores, conking	Tosea Clanuey	Allege N V	Aug 90 1946
Stores, cooking	D T D	Albany, N. Y	Aug. 20, 1845
Stoves, cooking.	D. I. Koney	Amenorough, Pa	Sept. 17, 1043
Stoves, cooking	Unaries J. Woolson	Cleaveland, Unio	ъерг. 9, 1049

^{*}Disclaimer, May 8, 24. †Antedated, Dec. 1, 43. ‡Antedated June 7, 44. ‡Add. improv. July 5, 45.

minimization or discovaries.	PA TRIFERMS.	R esidents .	WHILE SAVOID.
Stoves, cooking	J. B. Challar and E.		
Stoves, cooking	Jones and P. Low R. Peck and J. W.	Troy, New York	Nov. 8, 184
Swvee, cooking	Cochrane	Attica, New York	Nov. 12, 184
Stoves, cooking	John Porter	Gottysburg, Pa	Nov. 18, 184
Stoves, cooking	Eli C. Robinson	Gottysburg, Pa Troy, N. Y	Nov. 26, 184
Stoves, cooking	Samuel Pierce	Peckskill, N. Y	Dec. 6, 184.
Stoves , cooking †	Samuel Myers	Schenectady, N. Y.	Dec. 31, 1844
Stove, cook	W. H. Allen and J. Slocum	Schenectady, N. Y. Wellsburg, Va) Brownsville, Pa	Sept. 10, 1846
Stove, cooking	Jacob Cornelison	Danville, Pa	Sept. 26, 184
Stove, cooking	Adam C. Conde	Schenectady, N. Y.	Oct. 3, 184
Steve, cooking	William B. Treadwell	Albany, N. Y	Oct. 7, 184
Stove, cooking			Aug. 26, 1840
Stove, cooking			Aug. 26, 1840
Stove, cooking			Dec. 15, 1846
Stove, cooking	John Lee		May 16, 1846
Stove, cooking		New York, N. Y	Dec. 22, 1840
Stove, cooking	James R. Stafford	Cleaveland, Ohio	Dec. 28, 1846
Stove, cooking	Joseph Lanbach		Feb. 10, 1846
Stove, cooking		Rochester, N. Y	July 2, 1846
Stove, cooking			Feb. 10, 1846
Stove, cooking	R. D. Granger	Albany, N. Y	Feb. 20, 1846
Stove, cooking	Bancroft Woodcock	Wheeling, Va	Aug. 12, 1846
Stove, cooking, design for Stove, cooking, design for	Samuel D. Vose	Albany, N. Y	Aug. 18, 1846
Stove, cooking, design for	Samuel D. Vose	Albany, N, Y	Aug. 10, 1040
Stove, cooking, design for	Wm. Jackson John F. Rathbone		
Stove, cooking, design for	Aug. Quackenboss, as-	Albany, N. Y	July 10, 1040
, ,,,,	signee of S. W. Gibbs	Albany, N. Y	Oct. 3, 1846
Stove, cooking, design for	Peter Low	Troy, N. Y	Oct. 10, 1846
Stove, cooking, design for	William Resor	Cincinnati, Ohio	May 23 1846
Stove, cooking, design for	Jesse C. Potts, ausignee	, 01110111	100, 1010
	of L. Gravline		July 10, 1846
Stove, cook, design for	John M. French, as-		,,
	signee of Calvin Ful-		
S	ton	Rochester, N. Y	
Stove, cooking, air furnace, oven.	Oliver Davison	Johnstown, N. Y	Aug. 25, 1829
Stove, cooking, air tight, design for			
Staves eaching and air bearing	signee of J. E. Thomas		
Stoves, cooking and air-heating Stove, cooking, bake	Benjamin Snepard		Sept. 1, 1843
Stove cooking, baking	Henry Caldwell	Oswego, N. Y	Oct. 14, 1834
Stove, cooking, baking, boiling and	Hiram G. Phelps	Johnstown, N. Y	Mar. 29, 1835
steaming	Eliphalet B. Coleman	New Harran Can	Mars 19 1014
Stove, coeking, and boilers	Gabriel N. Phillips	Goghen N V	May 13, 1814
Stove, cooking, boiling	Henry Abbett	Philadelphia Pa	Feb. 6, 1813 Mar. 30, 1813
Stove, cooking, boiling, and steam	Erastus Warner		Sept. 12, 1815
Stove, cooking, bottom boiler	Benjamin Simonds, jr.	Bedford Mass	Oct. 15, 1891
Stoves, cooking, burning bitumi-		i	l
nous coal, &c	William B. Lawrence	Cincinnati, Ohio	Oct. 14, 1840
Stoves, cooking or cabooses	Loftis Wood	New York	Ang. 11. 1841
Stove, cooking, cast iron	Albertus Swain	New York	Anril 5 1917
Stove, cooking, coal	David Gasaner	New York	July 11, 1833
San ve, cooking, coai	William Kinney	Louisville, Ky	July 29, 1837
Stove, cooking, coal, anthracite	William Davis and R.	1	-
Stove cooking coal authority	W. Lord	New York	Nov. 23, 1839
Stove, cooking, coal, anthracite	Walter Bryent	Boston, Mass	Sept. 13, 1831
Stove, cooking, coal, anthracite	Hezekiah Steel	Hudson, N. Y	Nov. 19, 1833
Stove, cooking, coal, anthracite, or wood	William Cham	A11 37 37	
Stove, cooking, coal, Lehigh	William Shaw	Many, N. Y	Dec. 31, 1833
Stove cooking coal or wood	C. Shermerhorn	Livew I OFK	June 33, 1838
Stove, cooking, coal or wood Stove, cooking, combination	Jordon L. Mott	New York	Nor 00 1000

Stove, cooking, heat to	
Stove, cooking, correcting bad smell	9 95000
Stove, cooking, contractions bad smell	
Stove, cooking, cylindrical, sheetiron, &c Stove, cooking, drumcetion bad samell Stove, cooking, double furnace Stoves, cooking, double furnace Stoves, cooking, double furnace Stoves, cooking, draught arranging Stoves, cooking, draught arranging Stoves, cooking, draught, &c., in Horace Strickland Stoves, cooking, draught, &c., in Horace Strickland Stoves, cooking, with elevated ovens Stoves, cooking, with elevated ovens Stoves, cooking, and fire-place Stoves, cooking, and Franklin Stoves, cooking, franklin Stoves, cooking, franklin Stoves, cooking, heating Stove, cooking, heating Stoves, cooking, heating Stov	1940
Stove, cooking, cylindrical, aheet iron, &c. Stove, cooking, ordigeative furnace Stove, cooking, domestic. Stove, cooking, domestic. Stove, cooking, domestic. Stove, cooking, domestic. Jos. R. Page. Philadelphia, Pa. Mar. Stoves, cooking, double furnace. Jos. R. Page. Philadelphia, Pa. Mar. Stoves, cooking, double furnace, Stoves, cooking, drum Mar. Stoves, cooking, with elevated ovens with. Stoves, cooking, with elevated ovens with. Stoves, cooking, and fire-place. Stoves, cooking, and fire-place. Stoves, cooking, and fire-place, and oven. Stoves, cooking, and fire-place, double. Stoves, cooking, and Franklin. Stoves, cooking, and galley. Stoves, cooking, Franklin. Stoves, cooking, heat to. Stove, cooking, heating. Stove, cooking, heating. Stoves, cooking, hea	
Stove, cooking, cylindrical, sheet iron, &c	19, 1000
Stove, cooking, ordigestive furnace Stove, cooking, domestic. Stoves, cooking, drum. Stoves, cooking, drum. Stoves, cooking, drum. Stoves, cooking, drum. Stoves, cooking, with elevated ovens with. Stoves, cooking, elevated ovens with. Stoves, cooking, and fire-place. double. Stoves, cooking, and fire-place, double. Stoves, cooking, and fire-place, double. Stoves, cooking, flat. Stoves, cooking, flat. Stoves, cooking, and Franklin. Stoves, cooking, heat to. Stove, cooking, heating. Stove, cooking, heating. Stove, cooking, heating. Stoves,	7 100
Stove, cooking, domestic	7, 183
Stove, cooking, domestic	0 100
Stove, cooking, double furnace Stove, cooking, double furnace Stove, cooking, double furnace Stoves, cooking, double furnace Stoves, cooking, with double fire-places Stoves, cooking, draught arranging Stoves, cooking, with elevated ovens Stoves, cooking, with elevated ovens with Stoves, cooking, and fire-place double Stoves, cooking, and fire-place, and oven Stoves, cooking, and Franklin Stoves, cooking, Franklin Stoves, cooking, Franklin Stoves, cooking, Franklin Stoves, cooking, fact Stoves, cooking, and Franklin Stoves, cooking, and Franklin Stoves, cooking, fact Stoves, cooking, heating Stoves, cooking, heating Stoves, cooking, heating Stoves, c	3, 183
Stove, cooking, double furnace Josiah Richards	
Stoves, cooking, with double fire-places	
Stoves, cooking, draught arranging Stoves, cooking, draught arranging Stoves, cooking, draught, &c., in Stoves, cooking, with elevated ovens. Stoves, cooking, with elevated ovens with. Stoves, cooking, with elevated ovens with. Stoves, cooking, family Stoves, cooking, family Stoves, cooking, and fire-place. Stoves, cooking, and fire-place. Stoves, cooking, and fire-place, double Stoves, cooking, and fire-place, double Stoves, cooking, and Franklin Stoves, cooking, and Franklin George Richards Stoves, cooking, and Franklin George Richards Stoves, cooking, and Franklin George Richards Stoves, cooking, and Franklin Stoves, cooking, Franklin Stoves, cooking, Franklin Stoves, cooking, Franklin Stoves, cooking, and galley Stoves, cooking, fat to John Rice Cincinnati, Ohio July Stoves, cooking, Franklin Stoves, cooking, heating Stoves, cooking, heating Stove, cooking, heating Stove, cooking, heating Stove, cooking, heating Stoves, cooking, heating, and illuminating Stoves, cooking and heating Stoves, cooking, heating, and illuminating Stoves, cooking, improvement in Stoves, cooking, improvement in Payson, Burch, and Stoves, cooking, i	5, 162
places	7, 1840
Stoves, cooking, draught, &c., in Stoves, cooking, with elevated ovens. Stoves, cooking, with elevated ovens, with	
Stoves, cooking, draught, &c., in Stoves, cooking, drum	
Stoves, cooking, with elevated ovens. Stoves, cooking, with elevated ovens. Stoves, cooking, with elevated ovens with	
Stoves, cooking, with elevated ovens. Stoves, cooking, with elevated ovens with	27, 1840
Stoves, cooking, with elevated ovens with	25, 184
Stoves, cooking, with elevated ovens with	
Stoves, cooking, family	16, 183
Stoves, cooking, family	-
Stoves, cooking, elevated ovens with. Stoves, cooking, family	18. 184
Moses Bartholomew Joseph Tulley	•
Stoves, cooking, family	2, 1849
Stoves, cooking, and fire-place. Stoves, cooking, and fire-place, double	
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Stoves, cooking, and fire-place, and oven	92 1 <u>8</u> 2
Stoves, cooking, and Franklin. Stoves, cooking, and galley. Stove, cooking, and galley. Stove, cooking, heat to. Stove, cooking, heat to. Stove, cooking, heating. Stove, cooking, heating. Stove, cooking, heating. Stoves, cooking and	£0, 100
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Stoves, cooking, and Franklin. Stoves, cooking, and galley. Stove, cooking, and galley. Stove, cooking, heat to. Stove, cooking, heating. Stove, cooking, heating. Stoves, cooking and heating	19 100
Stoves, cooking, and Franklin	10, 10%
Stoves, cooking, and Franklin. Stoves, cooking, and Franklin, reflecting	10,102
Stoves, cooking, and Franklin, refecting Stoves, cooking, Franklin Samuel W. Phelps Cincinnati, Ohio July Stoves, cooking, Franklin Stoves, cooking, Franklin Stoves, cooking, Franklin Stove, cooking, and galley Stove, cooking, and galley Stove, cooking, heat to Stove, cooking, heat to Stove, cooking, heating Stoves, cooking and heating	
Samuel W. Phelps	24, 103
Stoves, cooking, Franklin Joel Houghton Ogden, N Y May Stoves, cooking, Franklin Reuben Houghton Clarkson, N. Y Aug. Stove, cooking, and galley Benjamin Spratley James Baron Jonathan G. Hathaway Stove, cooking, heat to Jonathan G. Hathaway Stove, cooking, heating Rufus S. Payne Stove, cooking, heating Rufus S. Payne Stove, cooking, heating Rufus S. Payne Stove, cooking, heating Philip Wilcox Springfield, Mass. Sept. Stove, cooking, heating Andrew Walker, jr Stoves, cooking and heating Andrew Walker, jr Stoves, cooking and heating Laommin Bailey Boston, Mass Mar. Stoves, cooking improvement in. Payson, Burch, and	10 100
Stoves, cooking, Franklin. Stoves, cooking, Franklin. Stove, cooking, and galley. Stove, cooking, and galley. Stove, cooking, heat to. Stove, cooking, heat to. Stove, cooking, heating. Stoves, cooking and heating. Stoves, cooking, heating, and illuminating. Stoves, cooking and heating. Stoves,	
Stoves, cooking, Franklin Reuben Houghton Clarkson, N. Y Aug. Stove, cooking, and galley James Baron Philadelphia, Pa Oct. Stove, cooking, heat to Jonathan G. Hathaway Stove, cooking, heat to Stove, cooking, heating William B. Kimball Petersborough, N. H. July Stove, cooking, heating Philip Wilcox Stove, cooking, heating buildings! Washington Auld and James Cox Philadelphia, Pa May Stoves, cooking and heating Andrew Walker, jr Stoves, cooking and heating Laommi Bailey Boston, Mass Mar. Stoves, cooking and heating Laommi Bailey Boston, Mass Mar. Stoves, cooking improvement in Payson, Burch, and	
Stove, cooking, and galley	
Stove, cooking, heat to	
Stove, cooking, heat to	25, 183
Stove, cooking, heat to	6, 183
Stove, cooking, heating	7, 183
Stove, cooking, heating	
Stove, cooking, heating	9 0, 183
Stove, cooking, heating	19, 183
Stove, cooking, heating	31, 18 3
Stove, cooking, heating buildings Washington Auld and James Cox	12, 183
Stoves, cooking and heating James Cox Philadelphia, Pa May Woodstock, Vt July Stoves, cooking, heating, and illuminating Andrew Walker, jr Unity, N. H June Stoves, cooking and heating Laommi Bailey Boston, Mass Mar. Stoves, cooking, improvement in. Payson, Burch, and	
Stoves, cooking and heating Alexander F. Bean Woodstock, Vt July Stoves, cooking, heating, and illuminating Andrew Walker, jr Unity, N. H June Stoves, cooking and heating Laommi Bailey Boston, Mass Mar. Stoves, cooking, improvement in. Payson, Burch, and	30, 183
Stoves, cooking, heating, and illuminating	
minating	-,
Stoves, cooking and heating Laommi Bailey Boston, Mass Mar. Stoves, cooking, improvement in. Payson, Burch, and	27, 184
Stoves, cooking, improvement in. Payson, Burch, and	
	~0, IOE
	94 184
Davis Eaton Village, N. Y. Nov. Stoves, cooking, improvement in. Conrad Samuel, and	~=, 103
	2 104
George J Somerset, Pa Dec.	3, 184
Stove, cooking, kitchen Andrew Sherwood New York April	25 , 181
Stove, cooking, kitchen John Spencer Albany, N. Y Feb.	
Move, cooking, kitchen, portable. James Truman Philadelphia, Pa Dec.	
Stove, cooking, and oven John R. Smith New Haven, Conn Mar.	10, 183
Stove, cooking, and parlor Nicholas Smith New Hampton, N.H. Oct	27, 183
Stove, cooking, plain, plate or box Eliphalet Nott Schenectady, N. Y. April	22, 183
Stove, cooking, portable Stephen J. Gold Cornwall, Conn Aug.	29, 183

^{*} Antedated, August 30, 1838.

[†] Additional improvement Dec. 5, 1838.

marmitone or disco <i>țe</i> ries.	PATENTERS.	RIMMANOS.	
Stove, cooking, portable	Thomas Whitson and		
200 (0, 000 mmg) pt	Gustavus E. Haynes	Roxbury, Mass	Nov. 19, 183
Stove, cooking, portable	John Igget	Roxbury, Mass Albany, N. Y	Jan. 16, 183
Stove, cooking, premium, railway*	Peregrine Williamson	Philadelphia, Pa	Feb. 16, 182
Stove, cooking, preventing waste			
of heat	Eliphalet Nott	Schenectady, N. Y.	Jan. 9, 183
Stove, cooking, railway	Isaac B. Bucklin	Schenectady, N. Y West Troy, N. Y Troy, N. Y	July 9, 183
Stove, cooking, railway	Anson Atwood	Trov. N. Y	April 10, 183
Stove, cooking, railway	R. P. Butrick	Lockport, N. Y	Sept. 18, 184
Stove, cooking, railway	Chollar, Jones & Low, assignees of Chollar		
	& Parmelee	West Troy, N. Y	July 11, 184
Stove, cooking, rarifying oven	Samuel W. Phelps	Cincinnati, Ohio	July 16, 183
Stove, cooking, reflection of caloric	John Burch	Jefferson co., N. Y.	April 22, 183
Stove, cooking, revolving :	Henry Stanley	Poultney, Vt Buffalo, N. Y	Dec. 17, 183
Stove, self-heat retaining	Moffat and Taintor	Buffalo, N. Y	July 17, 183
Stoves, cooking, semi-circular	Thomas O. Savre	Elizabethtown, N. J.	Mar. 23, 184
Stove, cooking, shifting	Henry Cressman	Philadelphia, Pa	Feb. 7, 183
Stove, cooking, stcam	Josiah Noyes	Herkimer, N. Y	June 21, 181
Stoves, coeking, steam apparatus	,	,	
for	Peter Getz	Lancaster, Pa	Jan. 11, 184
Stoves, cooking, still, and boilers.	John J. Giraud	Baltimore, Md	April 19, 1830
Stoves, cooking, for summer	Anson Atwood	Troy, N. Y	June 30, 183
Stoves, cooking, for summer and		,	
winter	Philo P. Stewart	New York city	Sept. 12, 1836
Stoves, cooking, three boiler, flat.	Silvester Parker	Troy, N. Y New York, N. Y	Jan. 16, 183
Stoves, cooking, tubular	Jordon L. Mott	New York, N. Y	Mar. 23, 1845
Stoves, cooking, utensils for	Salmon C. Riley	New York, N. Y	Aug. 31, 1844
Stoves, cooking, valve of	Hiram Root	Deerfield, Mass	Sept. 3, 183
Stoves, cooking, and warming			
rooms	Ernst G. Augustin	New York	July 6, 1835
Stoves, cooking, and warming			, uni
rooms	John Morris	Derby, Conn	Nov. 4, 1837
Stoves, cooking, and warming		,,	
rooms	Josiah Hill	Andover, Mass	Oct. 16, 1836
Stoves, covering the rods used to		,	
bind	John C. Parry	Pittsburg, Pa	June 12, 1834
Stoves, culinary and air heating	Benjamin Shepard	Boston, Mass	May 30, 184
Stoves, diffusing heat and econo-			,
mizing coalStoves, draught of, changing by an	John Scott	Philadelphia, Pa	April 8, 1846
elliptical valve	Horace Bushnell	Hartford, Conn	June 21, 1839
Stove, double oven, air tight, de-		,	
sign for	G. W. and H. Sizer	Springfield, Mass	July 25, 1846
Stoye, double oven, air tight, de-		, ,	
sign for§	G. W. and H. Sizer	Springfield, Mass	July 25, 1846
Stoves, double, for heating apart-		, ,	
ments	John Dunley	Richmond, Va.	Jan. 24, 1831
Stoves, dumb, for parlors	John G. Treadwell	Richmond, Va	June 30, 1836
Stoves, economical	John Graham	New York	Nov. 9, 1815
Stoves, eleven plate	Charles Postley	New York	March 7, 181
Stoves, elevated ovens, with	Samuel B. Spaulding	Brandon, Vt	Mar. 30, 1843
Stoves, fire-chambers of, mode of			1.201. 00, 200
constructing.	S. Gold	New York	July 15, 184
Stoves, &c., fire-chambers of	Matthew Stewart, jr	Philadelphia, Pa	Nov. 16, 184
Stoves, for fire-places	H. Katussowski and F.		101. 10, 201.
ioi nio pinooii i i i i i i i i	P. Wierbicki	New York	Dec. 11, 184
Stoves, and fire-place	John H. Lotz	Salisbury, Conn	
Stoves, and fire-place	Lemuel Hitchcock	Weathersfield, VL.	Mar 4 1996
Stoves, and fire place	Daniel Sutherland	Liebon Maine	May 4, 1826 Oct. 31, 1836
Stores and five-place		Lisbon, Maine	OCL. 31, 1034
Stoves, and fire-place	Fluell	Gardner Mains	Ech 05 1694
Stores and fire-place	Elwell	Gardner, Maine	
Stoves, and fire-place	JORGON LA MICH	New York	Oct. 11, 1836
		l	1

^{*} Reissued Sept. 30, 1840. † Reissued Aug. 27, 1840. † Reissued Dec. 2, 1835. Nov. 16, 1836, and Nov. 98, 1888. † Antedated March 3, 1839. † Antedated Jan. 34, 1846.

Stoves, and fire-place. Stoves, or fire-place, circular opening. Stoves, foot. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin, design for Samuel D Stoves, furnace. Stoves, gobe, or radiator. Stoves and grates. Stoves, heating apartments. Stoves, heating irons for tailors. Stoves, heating apartments. Stoves, heating trons for tailors. Stoves, heating apartments. Stoves, heating buildings. Herbert Stoves, hot air. Stoves, improvement in constructing Stoves, improvement in constructing Stoves, improvement in constructing Stoves, improvement in for heating apartments. Stoves, improvement in constructing Stoves, improvement in for heating apartments. Stoves, improvement in constructing Stoves, improvement in for heating apartments. Stoves, improvement in sir-heating Stoves, improvement in sir-heating Stoves, improvement in for heating apartments. Stoves, improvement in sir-heating Stoves, improvement in for heating apartments. Stoves, improvement in sir-heating Stoves, improvement in sir-heatin	Berrian and Class Net H. Quincy. Bos ely Oxt ttou Phi J. Robinson. Net aboll Car ilson Pour	w Yorkston, Mass	June 23, 18; Aug. 31, 18; June 13, 18;
Stoves, fost. Stoves, foot. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin, burning coal. Stoves, Franklin, burning coal. Stoves, furnace. Stoves, furnace. Stoves, furnace. Stoves, furnace. Stoves, furnace. Stoves and grates Stoves and grates, or furnace. Stoves and grates, or furnace. Stoves, heating apartments Stoves, heating irons for tailors' & hatters' use. Stoves, heating irons for tailors' & hatters' use. Stoves, heating apartments Stoves, heating pooms. Stoves, heating buildings. Stoves, heating buildings. Stoves, hot air. Stoves, improvement in air-heating stoves, improvement in air-heating Stove, improvement in air-heating Stove, improvement in air-heating Stoves, improvement in air-heating Stove	Berrian and Class Net H. Quincy. Bos ely Oxt ttou Phi J. Robinson. Net aboll Car ilson Pour	ew Yorkston, Mass	Aug. 31, 18
Stoves, for the place, excular opening. Stoves, foot. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin, burning coal. Stoves, Franklin, burning coal. Stoves, furnace. Stoves and grates Stoves and grates Stoves and grates Stoves and grates Stoves and grates, or furnace. Stoves and grates, boilers & ovens Stoves, heating apartments Stoves, heating irons for tailors' & hatters' use. Stoves, heating irons for tailors' & hatters' use. Stoves, heating apartments Stoves, heating irons for tailors Stoves, heating rooms. Stoves, heating pooms. Stoves, heating buildings. Stoves, hot air. Stoves, improvement in air-heating stove, improvement in air-heating Stove, improvement in air-heating Stove, improvement in air-heating Stoves, improvement in air-heating Stoves, improvement in air-heating Stoves, improvement in air-heating Stove, improvement in air-heating Stoves, improvement in air-heat	Berrian and Class Net H. Quincy. Bos ely Oxt ttou Phi J. Robinson. Net aboll Car ilson Pour	ew Yorkston, Mass	Aug. 31, 18
Stoves, foot. Stoves, franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin, burning coal. Stoves, Franklin, burning coal. Stoves, furnace. Stoves, grain, drying Stoves and grates Stoves and grates Stoves and grates Stoves and grates Stoves and grates, or furnace. Stoves and grates, or furnace. Stoves, heating apartments Stoves, heating apartments Stoves, heating apartments Stoves, heating irons for tailors Stoves, heating apartments Stoves, heating buildings Herbert I Stoves, hot air Stoves, hot air Stoves, hot air Stoves, hot air, improvement in Stoves, improvement in air-heating Stoves, hot air, improvement in Stoves, improvement in air-heating Stoves, improvement in air-heating Stoves, improvement in air-heating Stoves, improvement in Stoves, improvement in for heating apartments: Stoves, improvement in air-heating Stoves, improvement in Stoves, improvement in air-heating Stoves, improvement in air-heating Stoves, improvement in Stoves, improvement in air-heating Stoves, improvement in Stoves, improvement in air-heating Stove, improvement in Stoves, improvement in Stoves, improvement in air-heating Stove, improvement in Stoves, improve	H. Quincy. Bos ely Oxi ntou Phi 7. Robinson. Nev aboll Car ilson Pou	ston, Mass	
Stoves, foot. Stoves, franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin, burning coal. Stoves, Franklin, burning coal. Stoves, Franklin, design for* Stoves, furnace. Stoves, grain, drying Stoves and grates Stoves and grates Stoves and grates Stoves and grates Stoves and grates, or furnace. Stoves, heating apartments Stoves, heating irons for tailors' & hatters' use. Stoves, heating irons for tailors' & hatters' use. Stoves, heating irons for tailors' & hatters' use. Stoves, heating apartments Stoves, heating irons for tailors. Stoves, heating pooms. Stoves, heating buildings Stove, hot air. Stoves, hot air. Stoves, hot air. Stoves, hot air. Stoves, improvement in air-heating stove, improvement in. Stoves, improvement in air-heating Stove, improvement in. Stoves, improvement in air-heating Stove, improvement in. Stoves, improvement in air-heating Stove, improvement in air-heating Stove, improvement in. Stoves, improvement in. Stoves, improvement in. Stoves, improvement in. Stoves, heating the air of apartments. elyOxi ntouPhi 7. Robinson. Nev aboll. Car ilson. Pou	ford, Mass	June 13 18	
Stoves, foot. Stoves, foot. Stoves, foot. Stoves, Franklin. Stoves, Franklin, design for* Stoves, furnace. Stoves, grain, drying. Stoves and grates Stoves and grates Stoves and grates Stoves and grates, or furnace. Stoves, heating apartments. Stoves, heating apartments. Stoves, heating apartments. Stoves, heating irons for tailors' & hatters' use. Stoves, heating irons for tailors' & hatters' use. Stoves, heating irons for tailors' & hatters' use. Stoves, heating irons for tailors. Stoves, heating buildings. Stoves, heating buildings. Stoves, heating water, and washing detthes. Stoves, hot air. Stoves, hot air. Stoves, hot air. Stoves, hot air. Stoves, improvement in air-heating Stove, improvement in constructing Stoves, improvement in constructing Stoves, improvement in in for heating apartments. Stoves, improvement in in for heating apartments in constructing Stoves, improvement in constructing Stoves, improvement in in for heating apartments in constructing Stoves, improvement in in for heating apartments in constructing Stoves, improvement in in for heating apartments in shoves, improvement in jordon Le Stoves, improvement in jordon Le Stoves, knobs or handles.	T. Robinson	iladelphia. Pa	
Stoves, foot. Stoves, foot. Stoves, Foot. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin, burning coal. Stoves, Franklin, design for*. Stoves, furnace. Stoves, furnace. Stoves, furnace. Stoves, furnace. Stoves, furnace. Stoves, globe, or radiator. Stoves and grates. Stoves and grates, or furnace. Stoves, heating apartments. Stoves, heating irons for tailors. Stoves, heating irons for tailors. Stoves, heating puildings. Stoves, heating puildings. Stoves, hot air. Stoves, improvement in air-heating Stoves, improvement i	V. Robinson . Nevaboli Car	iladelphia. Pa	
Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin, burning coal. Stoves, Franklin, design for* Stoves, furnace. Stoves and grates Stoves and grates Stoves and grates Stoves and grates, or furnace. Stoves, heating apartments Stoves, heating apartments Stoves, heating apartments Stoves, heating irons for tailors' & hatters' use. Stoves, heating apartments Stoves, heating buildings. Stoves, hot air. Stoves, improvement in air-heating Stove, improvement in air-heating Stoves, improvement in air-heating Stoves, improvement in air-heating Stoves, improvement in air-heating Stoves, improvement in air-heating Stove, improvement in air-he	aboll Car ilson Pou	37.1	Nov. 4, 18
Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin, burning coal. Stoves, Franklin, burning coal. Stoves, Franklin, design for* Stoves, furnace. Stoves, globe, or radiator. Stoves and grates Stoves and grates Stoves and grates Stoves and grates Stoves and grates, or furnace. Stoves, heating apartments Stoves, heating irons for tailors Stoves, heating irons for tailors Stoves, heating irons for tailors Stoves, heating apartments Stoves, heating apartments Stoves, heating buildings Stoves, hot air Stoves, hot air, improvement in Stoves, improvement in air-heating stoves, improvement in Stoves, improvement in air-heating Stove, improvement in Stoves, improvement in Stoves, improvement in air-heating stoves, improvement in Stoves, knobs or handles.	ilson Pou		June 2, 18
Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin. Stoves, Franklin, burning coal. Stoves, Franklin, design for* Stoves, furnace. Stoves, globe, or radiator Stoves and grates. Stoves and grates Stoves and grates Stoves and grates. Stoves and grates, or furnace. Stoves, heating apartments. Stoves, heating apartments. Stoves, heating apartments. Stoves, heating irons for tailors' & hatters' use. Stoves, heating irons for tailors' & hatters' use. Stoves, heating prooms. Stoves, heating apartments. Stoves, heating prooms. Stoves, heating puildings. Stoves, heating water, and washing dethes. Stoves, hot air. Stoves, hot air. Stoves, hot air. Stoves, hot air. Stoves, improvement in air-heating Stove, improvement in constructing Stoves, improvement in constructing Stoves, improvement in for heating apartments; Stoves, improvement in air-heating Stoves, improvement in constructing Stoves, improvement in constructing Stoves, improvement in for heating apartments; Stoves, improvement in air-heating Stoves, improvement in constructing Stoves, improvement		naan, Conn	July 1, 18:
Stoves, Franklin. Stoves, Franklin. Stoves, Franklin, burning coal. Stoves, Franklin, burning coal. Stoves, Franklin, burning coal. Stoves, Franklin, burning coal. Stoves, furnace. Stoves, furnace. Stoves, furnace. Stoves, furnace. Stoves, furnace. Stoves, grain, drying. Stoves and grates. Stoves and grates. Stoves and grates. Stoves and grates. Stoves and grates, or furnace. Stoves and grates, or furnace. Stoves, heating apartments. Stoves, heating irons for tailors. Stoves, heating irons for tailors. Stoves, heating apartments. Stoves, heating puildings. Stoves, heating water, and washing clethes. Stoves, hot air. Stoves, hot air. Stoves, hot air. Stoves, hot air. Stoves, improvement in air-heating stoves, improvement in. Stoves, improvement in constructing Stoves, improvement in. Stoves, improvement in, for heating apartments. Stoves, heating the air of apartments. Stoves, hot air. Stoves, hot air. Stoves, heating valer, improvement in. Stoves, improvement in, for heating apartments. Stoves, heating the air of apartments. Stoves, heating apartments. Stoves, heatin			March 9, 18
Stoves, Franklin. Stoves, Franklin, burning coal. Stoves, Franklin, burning coal. Stoves, Franklin, design for Samuel Devid Po Samuel Po	7 10	ughkeepsie, N. Y.	July 3, 18: Dec. 6, 18:
Stoves, Franklin, burning coal. Stoves, Franklin, burning coal. Stoves, Franklin, design for*. Stoves, furnace	owan Wa	atertown, N. Y	June 16, 18
Stoves, Franklin, design for* Stoves, furnace	ryman Ha	verhill, Mass	Sept. 29, 18
Stoves, furnace	treeLitt	ttle Falls, N. Y	Mar. 23, 18
Stoves, furnace	. Vose Alb		July 25, 18
Stoves, furnace	Baldwin Gib		July 19, 18
Stoves, furnace	Hubbard Ber	rlin, Conn	Mar. 25, 18
Stoves, globe, or radiator. Stoves, grain, drying	water Ner	w Haven, Conn	April 19, 18
Stoves and grates	water Ne	w Haven, Conn	June 20, 18
Stoves and grates	unt Ne	w York	Feb. 8, 18
Stoves and grates	cott Ma	aryland	May 1, 180
Stoves and grates. Stoves and grates, boilers & ovens Stoves and grates, or furnace. Stoves, heating apartments. Stoves, heating apartments. Stoves, heating apartments. Stoves, heating apartments. Stoves, heating irons for tailors. Stoves, heating aparatus. Stoves,	ans Pen	nnsylvania	Jan. 16, 180
Stoves and grates, boilers & ovens Stoves and grates, or furnace	ngalla Pro	ospect, Conn	May 14, 18
Stoves and grates, boilers & ovens Stoves and grates, or furnace. Stoves, heating apartments	nigatis Pro	ovidence, R. I	April 22, 18
Stoves, heating apartments	de T.	oy, N. I	June 30, 183
Stoves, heating apartments Allen Pol Stoves, heating apartments Stoves, heating apartments Stoves, heating apartments Stoves, heating irons for tailors '& hatters' use Stoves, heating irons for tailors '& hatters' use Stoves, heating irons for tailors Bartholo' Bartholo	water No.	oy, N. Y	Nov. 11, 18
Stoves, heating apartments Allen Pol Charles V Stoves, heating apartments Philip W Stoves, heating irons for tailors '& hatters' use John Lev Stoves, heating irons for tailors Bartholo Stoves, heating irons for tailors George S Stoves, heating the air of apartments John Sm John H. Stoves, heating pouldings John Sm Stoves, heating buildings Herbert J John H. Herbert Stoves, heating water, and washing cistles Stoves, hot air Stoves, hot air Stoves, hot air L. Morse Stoves, improvement in air-heating Stoves, improvement in constructing Stoves, improvement in constructing Stoves, improvement in James W Stoves, improvement in James W William Stove, improved double ovens Stoves, improved double ovens William Stoves, improved double ovens William Benj. F. I Stoves, knobs or handles Jordon Lev Stoves, heating apartments James M William Stoves, improved double ovens William Stoves, knobs or handles Jordon Lev Stoves, leading flame by william Stoves, heating apartments John Sm John H. Herbert John Sm Moses Pc E. D. Lo E. Backu James W William Stoves, improvement in air-heating spartments James M William Stoves, knobs or handles James M James M William Stoves, knobs or handles James M Jordon Lev Stoves, heating apartments John Sm Jordon Lev Stoves, heating apartments John Sm John Sm Stoves, heating apartments John Sm John Sm Stoves, heating apartments John Sm Stoves, heating apartments John Sm John Sm Sm Moses Pc E. D. Lo E. Backu James W William Stoves, heating apartments James M W William Stoves, heating apartments James M W William Stoves, heating apartments James M W W W W W W W W	lock Ro		Aug. 23, 183
Stoves, heating apartments	ockBos		June 17, 186 June 30, 186
Stoves, heating apartments	V. Peckham Ne		May 16, 18
Stoves, heating irons for tailors Stoves, heating irons for tailors Stoves, heating the air of apartments. Stoves, heating apparatus Stoves, heating points Stoves, heating rooms Stoves, heating buildings Stoves, heating water, and washing clethes. Stoves, hot air Stoves, hot air Stoves, hot air Stoves, improvement in air-heating Stove, improvement in air-heating Stove, improvement in constructing Stoves, improvement in constructing Stoves, improvement in stove, improvement in Stoves, improvement in Stoves, improved double ovens Stoves and kettles for making variash, &c. Stoves, knobs or handles. Stoves, knobs or handles. Stoves, knobs or handles. John Lev Bartholo George S John Sm John H. Herbert I Her	ilcoxSpr		July 31, 183
Stoves, heating irons for tailors Stoves, heating the air of apartments	1	1	va., 01, 10.
Stoves, heating the air of apartments	is Der	rby, Conn	Aug. 17, 183
Stoves, heating water, and washing ciethes. Stoves, heating water, and washing ciethes. Stoves, heating water, and washing ciethes. Stoves, hot air Stoves, hot air Stoves, hot air, improvement in. Stoves, improvement in air-heating Stoves, improvement in air-heating Stoves, improvement in. Stoves, improvement in, for heating apartments; Stoves, improved double ovens Stove, improved double ovens Stoves, improved double ovens Stoves, improved on the first stoves and kettles for making varnish, &c. Stoves, knobs or handles. Stoves, heating apparatus. George S John Sm Moses Po E. D. Lo E. Backu L. Morse Lewis. Benjamin James M William William William Stoves, improved double ovens Stoves, improved double ovens Stoves, improved Stoves and kettles for making varnish, &c. Stoves, knobs or handles. Jordon L	w W. Tabor. Fal		June 10, 18
Stoves, heating buildings		ł	•
Stoves, heating buildings. Stoves, heating buildings. Stoves, heating water, and washing clethes. Stoves, hot air. Stoves, hot air. Stoves, hot air, improvement in. Stoves, improvement in air-heating Stove, improvement in constructing Stoves, improvement in. Stoves, improvement in. Stoves, improvement in. Stoves, improvement in. Stoves, improved double ovens Stoves, improved double ovens Stoves, improved. Stoves, improvement in. Stoves, improveme	Howe Ne		July 10, 184
Stoves, heating buildings. Stoves for heating rooms. Stoves, heating water, and washing clethes. Stoves, hot air. Stoves, hot air. Stoves, hot air. Stoves, hot air. Stoves, improvement in air-heating Stoves, improvement in constructing Stoves, improvement in for heating apartments. Stoves, improved double ovens Stoves, improved double ovens William Stove, improved double ovens William Stoves, improved. Stoves, improved. Stoves, heating water, and washing does PC E. D. Lo Stoves Benjamin Stoves, improvement in air-heating Stoves, improvement in Graph William William Stoves, improved double ovens William Stoves, improved. Stoves, heating water, and washing then yet on the store of the stor		iladelphia, Pa	Mar. 28, 184
Stoves, heating water, and washing clethes. Stoves, hot air. Stoves, improvement in. Stoves, improvement in air-heating Stoves, improvement in constructing Stoves, improvement in, for heating apartments! Stoves, improvement in. Stoves, improved double ovens Stoves, heating water, and washing dose.	b. Latrobe Bal	ltimore, Md	Sept. 5, 184
Stoves, heating water, and washing clethes. Stoves, hot air. Stoves, hot air. Stoves, hot air, improvement in. Stoves, improvement in air-heating Stove, improvement in constructing Stoves, improvement in. Stoves, improvement in, for heating apartments; Stove, improved double overs Stove, improved double overs Stove, improved double overs Stoves, shobs or handles. Stoves, hot air. E. Backu L. Mores Lewis. Stames W Hancox Hancox William Stoves, improvement in. James M William Stoves, improvement in. Stoves, improvement in. James M William Stoves, improvement in. Stoves, improvement in. Stoves, improvement in. James M William Stoves, improvement in. Stoves, improvement in. James M William Stoves, improvement in. Stoves, improvement in. Stoves, improvement in. Stoves, improvement in. James M William Stoves, improvement in. Stoves, improvement in. Stoves, improvement in. James M William Stoves, improvement in. Stoves, improvement in. Stoves, improvement in. Stoves, improvement in. James M William Stoves, improvement in. Stoves, improvement in.	r ombson Bos		Jan. 20, 184
Stoves, hot air	tue Che	elsea, Mass	June 6, 184
Stoves, hot air	Woolsen A-	whomat NY TY	T1 9 10:
Stoves, hot air. Stoves, hot air, improvement in. Stoves, improvement in air-heating Stoves, improvement in constructing Stoves, improvement in. Stoves, improvement in, for heating apartments; Stove, improvement in. Stove, improved double ovens Stove, improved double ovens Stove, improved double ovens Stoves, improvement in or heating apartments; James M William Benj. F. I			July 3, 181
Stoves, hot air, improvement in Stoves, improvement in air-heating Stoves, improvement in constructing Stoves, improvement in constructing Stoves, improvement in, for heating apartments;			Sept. 1, 184
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Stoves, improvement in air-heating Stoves, improvement in constructing Stoves, improvement in	and W. T.	OORINI, 14. 1	July 28, 18
Stoves, improvement in air-neating Stove, improvement in constructing Stoves, improvement in. Stoves, improvement in, for heating apartments: Stove, improvement in. Stove, improved double ovens Stove, improved double ovens Stove, improved Stoves, knobs or handles. Stoves, knobs or handles. Jordon L. Stoves, leading flame by wife good.		hol, Mass	May 16, 184
Stoves, improvement in constructing Stoves, improvement in	Shepard Bos		Dec. 23, 184
Stoves, improvement in. Stoves, improvement in, for heating apartments! Stove, improvement in. Stove, improved double ovens Stoves, improved double ovens Stoves and kettles for making varnish, &c. Stoves, knobs or handles. Jordon L Stoves, leading flame by write and the stoves of the stoves	ilson Ne	w York, N. Y	May 16. 18
Stoves, improvement in, for heating apartments:	gers & S. H.	,	,,
Stove, improvement in		oy, N. Y	Oct. 10, 184
Stove, improved double ovens William Stove, improved double ovens Benj. F. Stoves and kettles for making varnish, &c Harmon Stoves, knobs or handles. Jordon L Stoves, leading flame by wine course.	i		•
nish, &c	cgregor, jr Wi	ilton, N. Y	Jan. 7, 184
nish, &c	naw Alb	bany, N. Y	June 27, 184
nish, &c	∪oob Alb	bany, N. Y	June 16, 184
nish, &c	Lar	naingburg, N. Y.	Jan. 15, 18
Stores leading flame by wine many Comments		[
Stoves, leading flame by wire gauze Samuel M	Wibbond	uca, N. Y	June 17, 18
Storme Takink and	Hibbard Att	W IOTK	July 21, 18
Court Mahert M	Mott Ne	.iora, N. H	Jan. 20, 18
Stoves, Lehigh coal Philin S	Mott Ne	iladalahia D-	June 24, 182
Stoves, Lehigh coal John Los	Mott Ne	iladelphia, Pa	
Stove, lyre, ornament, design for . Wm. & I	orey New Oxic Oxic Phi Mingle Phi	iladelphia, Pa	Uct. 24, 18,
*Antedated March 21, 1866. †Antedated Feb. 26, 1	lorey Phi cMinn Phi Mingle Phi att Cin	iladelphia, Pailadelphia, Pa	June 16, 185
10	lorey Phi cMinn Phi Mingle Phi att Cin	iladelphia, Pailadelphia, Pa	June 16, 185 Oct. 10, 186

Myzniione or discoversio.	PAŢŖĮK PŪJO .	PANDONAL.	WEIGH MARIED.
Stoves, manufacturing	Elias W. Newton	Middletown, Conn.	Jan. 9, 1936
Steves, non-radiating hot air	Benjamin Blaney	Boston, Mass	Sept. 8.1
Stove, ornamental, design for	Samuel H. Ransom	Albany, N. Y	Sept. 8, 1
Stove, ornamental, design for*	Jagger, Treadwell and		20, 20,
Day 10, 01.11111111111111111111111111111111	Perry, assignees of		ľ
	E. Ripley	Troy, N. Y	July 14, 184
Stoves, open	John F. Gould	Newburyport, Masa.	
Stoves, open	Jos. Howe & William		1, 100
Coron, openin	Lankester	Boston, Mass	Nov. 25, 1819
Stoves, open	John J. Pierce	Springfield, Mars	Mar. 11, 1825
Stoves, parlor, and fire-place	William Lankester	Boston, Mass	Nov. 24, 1815
Stoves, parlor	Beriah Douglass	Albany, N. Y	June 30, 1836
Stoves, parlor	Jordon L. Mou	New York city	Dec. 7, 1837
Stoves, parlor	John Backus & Evens		Dec. 1, 100.
Stores, parior		New York	Feb. 18, 1841
Stoves, parlor	Backus		Oct. 11, 1841
	Joseph Feinour, jr	Philadelphia, Pa	Sept. 30, 1845
Stoves, parlor	James Pedder	Philadelphia, Pa	
Stove, parlor, design for	Samuel D. Vose	Albany, N. Y	July 25, 1846
Stove, parlor, design for	R. A. Gregory	New York, N. Y	Oct. 3, 1846
Stove, parlor	Charles W. Leet	Vernon, N. Y	Feb. 10, 1846
Stove, parlor, cooking	R. D. Granger	Albany, N. Y	June 13, 1846
Stove, parlor, design for §	Goodwin & Littlejohn.	New Fork, N. Y	Dec. 10, 1846
Stoves, parlor and dumb, combined	Alonzo L. Blanchard.	Albany, N. Y	Nov. 12, 1811
Stoves, parlor grates and open fire	OL I D TTI		T.1. 10 10/A
places	Charles R. Wheeler	Boston, Mass	July 18, 1840
Stoves, parlor or open grates for	o		37
burning anthracite, &cT	Otis Jenks	Albany, N. Y	Nov. 16, 1841
Stove-pipes	John Parkhurst, jr	Cheshire, N. H	Feb. 13, 1810
Stove-pipes	John Cudlip & George		
	Price	Baltimore, Md	Nov. 18, 1818
Stove-pipes	William W. Weaver.	Philadelphia, Pa	April 16, 1829
Stove-pipes	Caleb Jones	Burlington, Vt	April 5, 1823
Stove-pipes	Ezra Ripley	Albany, N. Y	Jan. 23, 1836
Stove-pipes.—See Class 2.	· - · · · · · · · · · · · · · · · ·		
Stove-pipes and drums	Merrit Bradford	Saugerties, N. Y	Mar. 25, 1837
Stove-plate, design for	Johnson, Geer & Cox,	_	
_	assignees of E. Ripley	New York	Nov. 26, 1844
Stove plate, design for	John M. French, assig-		
	nee of Calvin Fulton.	Rochester, N. Y	Nov. 1, 1845.
Stove-plate, design for	Cresson, Sailor, and		
1	Stuart	Philadelphia, Pa	Oct. 24, 1846
Steves, portable	C. L. H. Webb	Lockport, N. Y	Dec. 6, 1845
Stoves, quadrant, hinge for	Ebenezer Barrows	Boston, Mass	Aug. 31, 1837
Stoves, radiators	Ethan A. Andrews	Boston, Mass	May 30, 1837
Stove, radiating	H. D. & J.McK. Fouse	Baltimore, Md	June 20, 1846
Stoves, rarifying air, &c	Daniel Pettibone	Roxbury, Conn	Oct. 28, 1806
Stoves, regulating the draught inff	Elisha Foote, jr	Seneca Falls, N. Y.	May 26, 1842
Stoves, revolving ovens	J.H. & N.P. Hayward	Baltimore, Md	May 8, 1843
Stoves, rotary	Elisha Town	Montpelier, Vt	May 16, 1834
	Rensselaer D. Granger	Troy, N. Y	July 17, 1837.
	Maynard French	Albany, N. Y	Mar. 2, 1836
	Ira French, assignee of	,,	•
,	Maynard French	Cincinnati, Ohio	June 11, 1842
toves, rotary top	Henry Stanley	West Poultney, Vt.	Oct. 25, 1845
toves, soapstone	William Payne		Dec. 10, 1797
Stoves, spiral.	Robert Roy	Warwick, N. Y	Nov. 13, 1813
toves, steam, &c., portable	Thomas G. Fessenden	Charlestown Mass	Dec. 14, 1839
	John J. Giraud	Baltimore, Md	April 19, 1890
	Alonzo L. Blanchard.	Albany, N. Y.	July 25, 1846
Roves, stone coal	George J. Fougeray		Sept. 11, 1898
Roves, stone coal	Philip Benedict	- • - 1	Feb. 27, 1839
koves, stone coal	Urbane B. A. Lange	Lancaster, Pa Philadelphia, Pa	May 3 1831
		Lancaster, Pa	May 3, 1832 Oct. 27, 1835
toves, stone, fire-proof	Ahraham H Quino-	Roston Mem	May 91 1819
TOTON, BOOMY, MIN PROUE			

mventions or descovered.	PATHNTHES.	abunence.	WEIN MOUND.
Stoves, transparent covers for	Heary O. Billings	Trenton, N. J	Jan. 28, 1046
Stoves, ventilating	Daniel Quimby	Calais, Maine	
Stoves, ventilating	Clement Woodward	Washington, D. C.	July 2, 1886
Temperature, instrument for regu-		J ,	, , ,
lating	David B. Van Tuyl	Dayton, Ohio	Oct. 12, 1843
Tin kitchen	George Richardson	South Reading, Mass	June 14, 1832
Tinder box	Ira Ives	Farrington, Conn	Oct. 25, 1816
Tubes for glass lamps	Deming Jarves	Cambridge, Mass	Feb. 2, 1822
·Tub, bathing	Jordan L. Mott	New York, N. Y	Aug. 18, 1846
Ventilators and chimney caps	Moses Chase	Boston, Mass	Mar. 7, 1846
Ventilator	Michael Colling	Boston, Mass	April 25, 1846
Ventilating and supplying houses with cold or hot air.	R. Mayo and Robert	Washington, D. C	Ont 94 1996
Victualler, economical	Benjamin'C. Burdett.	New York	Aug. 4, 1827
Warm air, conveying to fire	William R. Miller	Hinsdale, N. Y	Dec. 31, 1833
		Philadelphia, Pa	Mar. 13, 1834
Warm air, for heating buildings, &c	Joseph L. Dutton	rmmucipma, ra	Mai. 10, 1004
Warming buildings, by radiated and steam heat, &c	Robert Rogers	South Berwick, Me.	June 12, 1835
Warming buildings, by converting			
hollow walls into flues	John A. Stewart	Philadelphia, Pa	June 17, 1840
` Warming buildings, apparatus for	Benjamin Blaney	Boston, Mass	Sept. 7, 1844
Warming the interior of passenger	_		
cars, mode of	Tappen Townsend	Albany, N. Y	July 24, 1846.
Warming houses, &c	Robert Anlesly	Philadelphia, Pa	April 27, 1814
Warming rooms	Barzillai Russell	Hartford, Conn	Mar. 4, 1811
Warming rooms	William Baker	Springfield, N. Y	Sept. 9, 1825
Warming rooms	A. McAllester & John		
-	Iggett	Salem, N. Y	Dec. 15, 1827
Warming rooms, iron back log for		Boston, Mass	May 15, 1815
Warming rooms, and management	Robert B. Varden	Baltimore, Md	Feb. 6, 1832
of heat			
Warming rooms, by rarified air	Daniel Pettibone	Philadelphia, Pa	May 12, 1812

CLASS No. VI.

STEAM AND GAS ENGINES,

Including Boilers and Furnaces therefor, and parts thereof.

LIST OF PATENTS.

CLASS VI.—STEAM AND GAS ENGINES, including Botlers and Furnaces therefor, and parts thereof.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Agricultural steam apparatus	Edmund P. Bellinger.	Barnwell dist., S. C.	Nov. 19, 1833
Air condensing, apparatus for	John Gregg	Rochester, N.Y	Jan. 24, 1842
Atmospheric engines	E. & J. Prentise	Baltimore, Md	June 22, 1824
Atmospheric engines	Edward A. Talbot	Dublin, Ireland	June 21, 1828
Atmospheric engines	J.Mead & A.B.Kitchell		July 27, 1829
Atmospheric engines, two cylinder		Charleston, S. C	Nov. 14, 1826
Blowers, steamboat	Isaac P. Smith	Orangctown, N. Y	Mar. 11, 1846
Boilers, steam	J. Stevens, jr	Bergen co., N. J	Aug. 26, 1791
Boilers, steam	Royal Yeaman	Baltimore, Md	Jan. 9, 1815
Boilers, steam	Lemuel M. Richards .	Cazenovia, N. Y	Mar. 30, 1815
Boilers, steam	Humphrey Ricketson.	New York	Dec. 13, 1816
Boilers, steam	Royal Yeaman	Baktimore, Md	Nov. 20, 1817
Boilers, steam	Stephen Baker	New York	Dec. 13, 1821
Boilers, steam	Eben. A. Lester	Boston, Mass	May 14, 1827
Boilers, steam	Lemuel M. Richards .	Chagrin River, Ohio.	Aug. 21, 1828
Boilers, steam	Anthony Hermange	Baltimore, Md	Nov. 26, 1828
Boilers, steam	Frs. Coffin and C. K.		
_	Beach	Boston, Mass	June 29, 1829
Boilers, steam	Henry M. Shreve	Louisville, Ky	April 21, 1830
Boilers, steam	Peter Cooper	New York	Oct. 13, 1831
Boilers, steam	Isaiah Jennings	New York	Dec. 21, 1831
Boilers, steam	M. T. Wallace	New York	April 12, 1833
Boilers, steam	J. F. C. Salomon	Philadelphia, Pa	Oct. 17, 1835
Boilers, steam	Thomas Ashcroft	Boston, Mass	Nov. 23, 1835
Boilers, steam	J. W. & E. Strange	Taunton, Mass	Sept. 29, 1836
Boilers, steam	James J. Rush	Philadelphia, Pa	June 3, 1837
Boilers, steam	Jas. M. Whittemore.	Brighton, Mass	Nov. 23, 1837
Boilers, steam	Abram Van Order	Ithaca, N. Y	July 17, 1838
Boilers, steam	Ellis L. Horton	Hartford, Ct	Sept. 5, 1838
Boilers, steam	Jacob Perkins, assigned	/	
	to A. M. Perkins	Now residing in Eng.	Dec. 15, 1838
Boilers, steam	Rd. Varick De Witt	Albany, N. Y	Sept. 25, 1839
Boilers, steam	Jacob B. Eversole	St. Louis, Mo	Mar. 31, 1840
Boilers, steam	Charles Clinton	Goshen, N. Y	April 29, 1842
Boilers, steam	Abram S. Valentine.	Bellefonte, Pa	April 6, 1842
Boilers, steam	James Montgomery	Memphis, Tenn	Dec. 26, 1845
Boilers, steam, applying a float to		D 1 D	G 90 1040
regulate the height of water in	Cadwalader Evans	Pittsburg, Pa	Sept. 30, 1842
Boilers, steam, ascertaining the	Q D	D	4
pressure of steam	George Bradley	Patterson, N. J	April 16, 1841
Boilers, steam, and boats	William Thornton	Washington, D. C	Jan. 16, 1809
Boilers, steam, caldron and furnace	Tamaina 13 Trankina	37371-	0-4 11 1041
combined	Lansing E. Hopkins.	New York	Oct. 11, 1841
Boilers, steam, cast iron	John R. Averill	Manchester, N. Y.	May 27, 1824
Boilers, steam, combined furnaces	Levi Disbrow	New York	Feb. 18, 1831
Boilers, steam, connecting of, and	Codemicales France	Distulues De	G 9 1040
supplying water to the same	Cadwalader Evans	Pittsburg, Pa	Sept. 3, 1840
Boilers, steam, construction of	Zenas C. Robbins	St. Louis, Mo	July 28, 1843
Beilers, steam, effecting combus-	Chainting E Days 13	Nam Vanh	Das 4 1049
tion in furnaces and flues of			Dec. 4, 1843
Boilers, steam, engine		Salem, Mass	
Boilers, steam, engine	Elijah Bachus	4 11.R1111g	Brah 91, 1120

Manuflens or discovanies.	Pastinguing.	armanios.	WHITE SOURD.
Boilers, steam, engine	Math. Longwell	Gettysburg, Pa	July 11, 1807
Boilers, steam, engine	William Shukz	New York	Jan. 26, 1816
Boilers, steam, engine	Edward Rumsey, ex'or		
Poilous stores encine	of J. Rumsey	Kentucky	Nov. 15, 1816
Boilers, steam, engine	Samuel Morey John L. Sullivan	Oxford, N. H Boston, Mass	Mar. 13, 1817 Feb. 28, 1818
Boilers, steam, engine	John L. Sullivan	Bosten, Mass	Dec. 29, 1818
Boilers, steam, engine	Thomas Skidmore	New York	Nov. 30, 1821
Boilers, steam, engine	Ralph Bulkley	New York	Mar. 25, 1824
Boilers, steam, engine	John Poole	Sheffield, England	May 14, 1827
Boilers, steam, engine	James P. Allaire	New York	May 14, 1898
Boilers, steam, engine Boilers, steam, engine	Alden Potter	New York New York	Oct. 11, 1828 Dec. 17, 1830
Boilers, steam, engine		Utica, N. Y	May 3, 1831
Boilers, steam, engine	Philo M. Hackley	Herkimer, N. Y	May 3, 1831 Dec. 27, 1831
Boilers, steam, engine		Boston, Mass	Mar. 29, 1834
Boilers, steam, engine	Levi Burnell	Elyria, Ohio	May 21, 18 3 4
Boilers, steam, and evaporating		Dadham Mass	00 05 1004
fluids	John Goulding	Dedham, Mass	Oct. 25, 1834
fluids		Dedham, Mass	Oct. 25, 1834
Boilers, steam & evaporator, (im-	, and the same of	,,	,,
provement in Marvin & Seely's)*	Oran W. Seely	New York	July 1, 1841
Boilers, steam, feeding	Hunsicker & Krauss.	Northampton, Pa	Aug. 30, 1835
Boilers, steam, flat	D. Fanshaw and H.	No Vaule	Tune 11 1999
Boilers, steam, furnaces of, increas-	Hawks	New York	June 11, 1829
ing combustion by the decompo-			ł
sition of steam	Lucien Maillard	New York, N. Y	May 18, 1839
Boilers, steam, and furnace for			
steam engines	Samuel Forbes	New York	Mar. 17, 1831
Boilers, steam, & furnace for boats		Schenectady, N. Y	April 22, 1835
Boilers, steam, furnaces of, sup-		į	1
plying steam to promote com- bustion	John B. Petitval	Charleston, S. C	July 17, 1839
Boilers, steam, or generating appa-		,	
ratus	Gabriel H. Moreau	France	Jan. 26, 1844
Boilers, steam, and generator	Lansing E. Hopkins.	New York, N. Y	June 18, 1842
Boilers, steam, or generator	Austin W. Sharp and	Honore Follo N V	Dec. 5, 1842
Boilers, steam gauge, steam safety	John A. Roebling	Honeoye Falls, N. Y Saxonburg, Pa	July 16, 1842
Boilers, steam heater of	Zenas C. Robbins	St. Louis, Mo	Oct. 16, 1844
Boilers, steam, improvement in	E. Ingalls	Providence, R. I	May 30, 1846
Boilers, steam, inverted arch	John C. F. Salomon	Cincinnati, Ohio	Nov. 16, 1839
Boilers, steam, of locomotive en-	Taka Danainan	Daleimana Md	A 1840
Boilers, steam, magnetic water-	John Penniman	Baltimore, Md	April 24, 1840
gauge	George Faber	Canton, Ohio	Nov. 26, 1845
Boilers, steam, measuring height		0	2101125,
of water in	Benjamin Phillips	Philadelphia, Pa	June 21, 1834
Boilers, steam pipes	John Goulding	Boston, Mass	June 19, 1835
Boilers, steam, purifying water	Moody Park	Madison, Ia	Oct. 4, 1836
Boilers, steam, preventing explo-		Raltimore Md	Annil 10 1839
Boilers, steam, preventing explo-		Datamore, Ma	April 10, 1000
sion of	Cadwallader Evans	Pittsburg, Pa	April 15, 1839
Boilers, steam, preventing explo-		, -	_
sion of	William H. Hale	Brooklyn, N. Y	Sept. 14, 1839
Boilers, steam, preventing explo-			
Sion of †		w ashington, D. C	Sept. 30, 1039
Boilers, steam, preventing explosion of		Pawtucket, R. I	May 19, 1840
Boilers, steam, preventing explo-			-
Bions	Cadwallader Evans	Pittsburg, Pa	Feb. 24, 1845

^{*} See Calorific, Aug. 98, 1840.

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· mermiraness or descondense.	PATRIMINA.	anciamer.	where topics.
Beilers, seeam, preventing explo-			
sions	William M. Wright	Pittsburg, Pa	Feb. 24, 1845
Boilers, steam, preventing from			
bursting	John Shorb	Canton, Ohio	Feb. 20, 1846
Boilers, steam, regulating height of water in.	Dummer H. Hooper	New Albany, Ja	Oct. 31, 1831
Boilers, steam, regulating height		new Albairy, sa	000. 31, 1631
of water in*	Jesse Fox	Lowell, Mass	April 2, 1835
Boilers, steam, regulating height			G . 00 100
Poilers steem regulating height	Thomas Odiorne	Malden, Mass	Sept. 26, 1835
Boilers, steam, regulating height of water in	Seth Graham	Roxbury, Mass	Feb. 15, 1838
Boilers, steam, regulating the sup-		,,	1 10, 1000
ply of water to	Daniel Barnum	Bridgeport, Ct	July 24, 1844
Boilers, steam, removing incrusta-	T A Dissert and	D-13	S 11 1945
Boilers, steam, safety	L. A. Ritterbrandt Ralph Bulkley	Poland New York	Sept. 11, 1845 April 8, 1824
Boilers, steam, safety	John C. Douglass	New York	July 20, 1831
Boilers, steam, safety	Charles Curus	New York	May 28, 1833
Boilers, steam, safety	Levin P. Clark	Baltimore, Md	May 30, 1838
Boilers, steam, safety valves of	Wm. P. McConnell	Washington, D. C.	May 19, 1843
Boilers, steam, safety valves of t Boilers, steam, safety apparatus	William Duff James Montgomery	Baltimore, Md Memphis, Tenn	July 28, 1843 Sept. 2, 1845
Boilers, steam, safety-valve	Abram Patterson	Rush, Pa	Mar. 21, 1845
Boilers, steam, spiral flue for	Benjamin J. Miller	New York city	April 5, 1838
Boilers, steam, stone coal for	James G. Wilson	New York	Feb. 22, 1828
Boilers, steam, supplying with	Danismin M III	William Income and a Deal	0-4 10 1040
waterBoilers, steam, supplying with wa-	Benjamin M. Hyatt	Wilmington, Del	Oct. 10, 1840
ter, apparatus for	Ethan Campbell	New York	Aug. 28, 1841
Boilers, steam, supplying with wa-			
ter, self-acting apparatus	John Hampson	New Orleans, La	Sept. 4, 1841
Boilers, steam, supplying with wa-	John S Williams	Mananilla Va	No. 17 1090
Boilers, steam, supplying with wa-	John S. Williams	Maysville, Ky	Nov. 17, 1830
ter	Jesse Fox	Lowell, Mass	Mar. 14, 1932
Boilers, steam, supplying with wa-			
ter	W. W. Van Loane	New York	Dec. 31, 1834
Boilers, steam, triple pipe Boilers, steam, tubular, generating	Samuel Morey	Oxford, N. H	Dec. 19, 1818
steam	Charles W. Bentley	Baltimore, Md	Sept. 1, 1843
Boilers, steam, vertical	Ezra L. Miller	Charleston, S. C	June 21, 1830
Boilers, steam, and wheels for lo-	~		3.6
Comotives	S. H. Long	Philadelphia, Pa	May 6, 1833
Carriage, steam	Charles Reynolds Louis Bigelow	E. Windsor, Ct Petersham, Mass	Aug. 21, 1811 Aug. 29, 1823
Carriage, steam	Edward Clark	New York	Sept. 9, 1825
Combustion and explosion power	Aug. Day	Bordentown, N. J	Jan. 19, 1811
Evaporator, compound	John A. Wadsworth	Portsmouth, R. I	Nov. 23, 1825
Evaporator, and steam engine	David Heath Thomas Ewbank	Philadelphia, Pa	July 26, 1816
Explosion of boilers, preventing	Aaron B. Quimby	New York	June 8, 1830 Oct. 1, 1830
Explosion of boilers, preventing.	Timothy Newhall, jr.	Lynn, Mass	April 12, 1834
Explosion of boilers, preventing	Cadwalader Evans	Philadelphia, Pa	May 8, 1834
Explosion of boilers, preventing	Augustus Eitelgeorge.	Cincinnati, Ohio	
Explosion of boilers, preventing.	William A. Turner	Washington co., N.C	May 15, 1831
Explosion of boilers, preventing & burning	William A. Turner	Washington co., N.C	April 6. 1831
Explosion of boilers, guard for	J. Longhead and J. B.		0, 2002
	Chapman	Philadelphia, Pa	
Explosion, steamboats, mills, &c.	George R. Clarke	Rochester, N. Y	July 7, 1835
Explosion of boilers, preventings.	Thomas S. Easton	Mobile, Ala	May 17 1940
Explosion of boilers, preventings.	Thomas S. Easton		
	Date of foreign patent, Dec.	•	, Jan. 90, 1844.
Additional improvement, May	7, 1849; reissued June 11, 1	842. SReissued O	et. 7, 1849 .
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HIVETTIONS OR DISCOVERISM.	PA TRITURE .	STATE STATE .	WHEN SPORE.
Hoat, rotary, spiral spring, for			
steam engines Furnaces for steam boilers	Mason Young Gideon Shryock & S.	Buffalo, N. Y	July 21, 1835
Furnace of steam boilers	Underwood	Louisville, Ky Sharon, Ct	Sept. 14, 1843 Dec. 12, 1844
Furnaces for steam boilers	Henry F. Beker	Boston, Mass	May 30, 1846
Gas engines	Samuel Brown Maximin Isnard	London, Eng New York	Mar. 2, 1824 Dec. 11, 1824
Gas engines, or vapor	Samuel Morey Minus Ward	Oxford, N. H Baltimore, Md	April 1, 1826 May 15, 1827
Gas engines	Stuart Perry James Crutchett	New York, N. Y Great Britain; now in	Oct. 7, 1846
Gas metres	John Hemming	Cincinnati, Ohio North Bank, G. Brit.	May 6, 1844 Nov. 4, 1842
Gas or vapor engine, inflammable. Gauge, sight for boilers	Stuart Perry	Newport, N. Y	May 23, 1844 Mar. 24, 1826
Gauge, steam, for preventing the	William Barker	Kingston, Pa	
explosion of boilers Heat of blast furnaces to steam hollers applying the wester steam	Samuel Raub, jr	Wilkesbarre, Pa	Dec. 28, 1835 June 10, 1846
boilers, applying the waste steam Heat of blast furnace, as applied	Martin Bell Edward Burrall	Canaan, Ot	Jan. 31, 1876
Heat, escape, application of	Alexander Brown	Salina, N. Y	
Heat, economy of, in generating steam	Tunis V. Le Roy Ross Winans	Newport, N. Y Baltimore, Md	Aug. 17, 1855 July 29, 1837
Locomotive power, engine for re- moving houses		Almira, N. Y	July 21, 1837
Locomotive wheels, mode of re-	Stephen Compton, jr	Norwich, Ct	Sept. 30, 1835
Packing, for steam engines	Thomas D. Simpeon William V. Grinnell David Hinman	Middletown, Ct Brunswick, Ohio	April 5, 1832 Mar. 7, 1846
Pistons, folding	James Richards	New York, N. Y	Oct. 3, 1846
gines	Samuel Hall	Basford, Eng	Nov. 19, 1823
gines	Samuel Hall	Basford, Eng	Oct. 90, 1834
pumpsPistons, packing	John Swainson John Williamson	New York New York	Mar. 30, 1837 Aug. 31, 1837
Pistons, rotative	John M. Cooper Wright & Ketchum	Guildhall, Vt	July 16, 1827 June 19, 1835
Pistons, steam engines for Pamp, air, double, for steam en-	Ellis L. Horton	Calhoun co., M. T Hartford Conn	Sept. 5, 1838
gines Pump, air, for steam engines	James Smallman Thomas B. Stillman	Philadelphia, Pa New York	Aug. 29, 1815 May 15, 1837
Pump, steam	G. W. Long Alfred Judson	Old Point Comf., Va Sweden, N. Y	Feb. 16, 1826 Feb. 24, 1827
Pump, steam	P. Bernard and T. Soper.	Witestown, N. Y	
Pumap, steam, vacuum Screw, swivel, for steam engines.	Isaac Barnum	New York New York	April 16, 1834
Snow plough	Daniel D. Stilwell	Philadelphia, Pa	Dec. 22, 1846
Spark arresters	Henry Wilton	Wrightsville, Pa	Aug. 17, 1839
Spark arresters	William Knight Leonard Phleger Nicholas Turbutt	Philadelphia, Pa	Nov. 25, 1839
Spark arresters	Thos. Reamey & John	·	arco 1, 1003
,	Naglee; said Reaney having assig'd a moi- ety of his right to		,
	John Naglee	Philadelphia, Pa	Dec. 28, 1839

^{*}English patent, dated July 18, 1842.

			
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Spark arresters*	Leonard Phlager	Philadelphia, Pa	Sept. 10, 1949
Sisserk percetters	Randal Fish	New York	Oct. 14, 1969
Spark arresters	David Ritter	New Haven, Ct	Nov. 26, 1000
Spack erresters	Wm. P. McCeanell.	Washington, D. C	Dec. 10, 1860
Spark arresters	David Matthew	Schenectady, N. Y.	Dec. 31, 1860
Spark arresters	Richard French	Philadelphia, Pa	June 16, 1961
Spark arresters	L. Phleger, ass'nee of	Philadelphia, Pa)	June 26, 1841
Spark arresters	Wm. W. Hubbell L. Phieger, ass'nes of	Moyameneing, Pa (Philadelphia, Pa.)	June 26, 1841
Spark arresters	Wm. W. Hubbell L. Phleger, ana nee of Wm. W. Hubbell	Moyamensing, Pa (Philadelphia, Pa) Moyamensing, Pa (June 26, 1841
Spark arresters	L. Phleger, assinee of Wm. W. Hubbell	Philadelphia, Pa } Moyamensing, Pa	June 26, 1841
Spark arresters	William C. Grimes	York, Pa	Feb. 12, 1848
Spark erresters	Louis Chevrier	Brooklyn, N. Y	Feb. 91, 1948
Spark arresters	James Lewis	Saratoga Sp'ga, N. Y	Feb. 21, 1843
Spark arresters	John C. Johnson	Catakill, N. Y	Feb. 28, 1849
Sperk arresters	John V. L. Hoagland.	Jersey City, N. J	Mar. 28, 1842
Spark arresters	Abraham Keagy & M.	Woodh De	A
Snark american	Shimer	Woodbury, Pa	April 29, 1842
Spark arresters	Jonathan Hodges Samuel G. Brown	Taunton, Mass Henrietta, N. Y	June 22, 1842 Sept. 23, 1842
Spark arresters	James Eckler	Catskill, N. Y	Oct. 7, 1842
Spark arresters, extinguishing and			1, 1096
consuming	Abraham Ayres	Hicksville, N. Y	Feb. 28, 1849
Spark arresters	Zibeon Wilbar	Allegany town p. Pa.	Jan. 10, 1843
Spark arresters	James A. Roebling	Saxonburg, Pa	Feb. 16, 1843
Spark arresters	Samuel Swett, jr	New York	May 13, 1845
Spark arresters	William C. Grimes	Philadelphia, Pa	June 7, 1845
Spark erresterst	William C. Crimes	Baltimore, Md	May 13, 1845
Spark arresters	William C. Grimes	Baltimore, Md	Sept. 23, 1845
Spark arresters	William Duff	Baltimore, Md	Sept. 30, 1845
Spark arrester	Samuel Swett, jr Aug. Hamann	Boston Mass Washington D. C.	Aug. 26, 1846 Sept. 10, 1846
Spark catcher	Alfred C. Jones	Washington, D. C. Portsmouth, Va	Aug. 27, 1835
Spark catcher	Haut C. Wiat	Weldon, N. C	Oct. 15, 1835
Spark catcher	George Holbrook	Boston, Mass	Nov. 93, 1835
Spark eatcher	James W. Waples	Wilmington, Del	Nev. 30, 1896
Spark catcher		Philadelphia, Pa	Feb. 17, 1836
Spark catcher	Francis Milo	New York city	Feb. 26, 1656
Spark catcher		Philadelphia, Pa	Mar. 31, 1966
Spark catcher	Janus F. Curtis	Boston, Mass	April 13, 18 36
Spark catcher	A. Whitney and L. L.	Albanes NT W	M 00 1000
Snark catcher	Burr	Albany, N. Y	May 23, 1896
Spark catcher	Timothy Newhall	Donaldsonville, Pa Lynn, Mass	July 1, 1836 Jan. 27, 1868
Spark catcher	Jonas P. Fairlamb	Philadelphia, Pa	Mar. 8, 1838
Spark catcher	William T. James	New York city	April 13, 1838
Spark catcher	T. L. Smith and W. J. Van Loane	Newark, N. J	
Spark catcher	Wm. S. Montgomery,		
Spark catcher	Benjamin Briscoe	Detroit, Mich	
Spark catcher	Samuel Leonard	Bridgewater, Mass	Dec. 15, 1838
Spark catcher	John Finlay	Baltimore, Md	
Spark catcher, &c	William Duff	Baltimore, Md	
Spark catcher, centrifugal, &c	James Stimpson	Baltimore, Md	April 17, 1637
Spark catcher, flue	Johannes Oberhausser		Feb. 24, 1836
Steam, applying	Samuel Morey	Oxford, N. H	Mar. 25, 1795
Steam, applying	Samuel Briggs	New Orleans, La Frankfort, Ky	May 28, 1817 Dec. 30, 1820
Steam, applying	Michael Mussleman	Phelps, N. Y	Dec. 29, 1825
Steam, applying	Joseph Skinner	Mantua, Ohio	Mar. 14, 1826
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^{*}Reissued Dec. 28, 1849. † Antedated Mar. 1, 1845. ‡ Antedated Jun. 1, 1845. || Add'l imp., June 14, 1838

Steam, applying Ethan Baldwin Washington, D. C. Jan. 28, 1833 Steam, applying John Lockwood Sodus, N. Y Dec. 28, 1833				
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Steam engine John Stevens New York April 11, 1865				
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Steam engine Wilfiam Church Baltimore, Md. July 11, 1818 Steam engine Robert Thomas. Richmond co., N. C. May 29, 1619 Steam engine Minus Ward Columbia, S. C. Mar. 23, 1821 Steam engine Thomas Hatton. Philadelphia, Pa. Feb. 28, 1822 Steam engine Amos Thayer, jr. New York Mar. 6, 1823 Steam engine Jos. Dixon, jr. Norwalk, Conn. Dec. 24, 1833 Steam engine Ralph Bulkley. New York April 30, 1824 Steam engine Henry Lainhart, jr. New Orleans, Le. May 6, 1824 Steam engine D. B. Lee. Philadelphia, Pa. June 9, 1824 Steam engine Jos. Buchanan. Lexington, Ky. Sept. 13, 1824 Steam engine Stephen T. Conn. New York. Mar. 15, 1825 Steam engine H.Avery & H.Scoville New York. Mar. 15, 1825 Steam engine H.Avery & H.Scoville Pompey. N. Y. Sept. 20, 1825 Steam engine Mahlon Betts. Willmiserton. Del. Nov. 26, 1825	Steam engine			
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Steam engine Charles Leeke. Ross county, Ohio. Jan. 22, 1830 Steam engine Minus Ward Columbia, S. C. Mar. 23, 1821 Steam engine Thomas Hatton. Philadelphia, Pa. Feb. 28, 1822 Steam engine Amos Thayer, jr. New York Mar. 6, 1823 Steam engine Jos. Dixon, jr. Philadelphia, Pa. April 13, 1824 Steam engine Ralph Bulkley. New York April 30, 1824 Steam engine Henry Lainhart, jr. New Orleans, La. May 6, 1824 Steam engine Jos. Buchanan Lexington, Ky. Sept. 13, 1824 Steam engine Stephen T. Conn Washington, D. C. Sept. 29, 1824 Steam engine I. Jennings. New York Mar. 15, 1825 Steam engine H. Avery & H. Scoville Pompey. N. Y. Sept. 30, 1825 Steam engine Mahlon Betts. Williamierton, Del. Nov. 26, 1825	Steam engine	Robert Thomas	Richmond co., N. C.	May 29, 1819
Minus Ward Columbia, S. C. Mar. 23, 1821		Charles Leeke	Ross county, Ohio	Jan. 22, 1820
Amos Thayer, jr. New York. Mar. 6, 1823			Columbia, S. C	
H. Betts and J. A. Mc Lean		Thomas Hatton	Philadelphia, Pa	Feb. 28, 1822
Lean Norwalk, Conn Dec. 24, 1823		Amos Thayer, jr	New York	Mar. 6, 1523
Dos. Dixon, jr	Secam engine	ra. Betts and J. A. Mc-	Namelle Com	Dec 94 1909
Ralph Bulkley	Steam engine	Lean	Dhiladalahia Da	April 12 1894
Steam engine Henry Lainhart, jr. New Orleans, La. May 6, 1824 Steam engine D. B. Lee. Philadelphia, Pa. June 9, 1824 Steam engine Jos. Buchanan Lexington, Ky. Sept. 13, 1824 Steam engine Stephen T. Conn Washington, D. C. Sept. 29, 1824 Steam engine I. Jennings. New York Mar. 15, 1825 Steam engine H.Avery & H.Scoville Pompey, N. Y. Sept. 30, 1825 Steam engine Mahlon Betts. Willimierton, Del. Nov. 26, 1825	Steam engine	Rainh Ruiklau	New York	April 30 1824
D. B. Lee	Steam engine	Henry Lainhart ir	New Orleans La	May 6. 1824
Steam engine Jos. Buchanan Lexington, Ky Sept. 13, 1824 Steam engine Stephen T. Conn Washington, D. C. Sept. 29, 1824 Steam engine I. Jennings New York Mar. 15, 1825 Steam engine H.Avery & H.Scoville Pompey N. Y Sept. 39, 1825 Steam engine Mahlon Betts Wilmiseton, Del. Nov. 26, 1825	Steam engine	D. B. Lee	Philadelphia Pa	June 9, 1824
Steam engine Stephen T. Conn Washington, D. C. Sept. 29, 1824 Steam engine I. Jennings New York Mar. 15, 1825 Steam engine H.Avery & H.Scoville Pompey N. Y Sept. 39, 1825 Steam engine Mahlon Betts Wilmiseton, Del. Nov. 26, 1825	Steam engine	Jos. Buchanan	Lexington, Ky	Sept. 13, 1824
Steam engine	Steam engine	Stephen T. Conn	Washington, D. C.	Sept. 29, 1824
Steam engine	Steam engine	I. Jennings	New York	Mar. 15, 1820
Steam engine Mahion Betis Wilminston, Del Nov. 20, 1020	Steam engine	H. Averv & H. Scoville	Pompey, N. Y	Sept. 30, 1825
Steam engine	Steam engine	Mahion Betts	Wilmington, Del	NOV. 20, 1020
	sweam engine	Stephen T. Conn	New York	Nov. 29, 1020

^{*} Renewed by Congress, Feb. 7, 1815.



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Steam engine	George Deming	Niagara, N. Y	Mar. 10, 1986
Steam engine	John McCurdy	London, England	July 1, 1826
Steam engine	Joseph Eve	London, England	Aug. 16, 1896
Steam engine	Elisha Bigelow	Baltimore, Md	Nov. 6, 1826
Steam engine	E. A. Lester	Boston, Mass	May 14, 1827
Steam engine	John Maynard	Ovid, N. Y	June 15, 1827
Steam engine	Warren P. Wing	Greenwich Vil. Mass	Aug. 17, 1827
Steam engine	Sim. Broadmeadow	New York	Jan. 29, 1828
Steam engine	A. S. Kirk	Smithfield town'p, O.	Feb. 13, 1828
Steam engine	Mellen Battle	Albany, N. Y	Nov. 6, 1899
Steam engine	Benjamin Reeves	Philadelphia, Pa	Feb. 6, 1830
Steam engine	Charles Potts	Philadelphia, Pa	May 31, 1830
Steam engine	Franklin G. Smith	Lynchburg, Va	Oct. 12, 1830
Steam engine	Hugh Gordon	New York	Feb. 28, 1831
Steam engine	I. S. Richardson	New Market, N. H.	Oct. 17, 1831
Steam engine	Stacy Costili	Philadelphia, Pa	Feb. 20, 1839
Steam engine	La Fayette Tibbitts	New Glasgow, Va	June 22, 1832
Steam engine	John B. Emerson	New York	Mar. 8, 18 34 Oct. 30, 1834
Steam engine	Samuel Hall	Basford, England	Mar. 24, 1835
Steam engine	John Murphy	Philadelphia, Pa	Mar. 24, 1835
Steam engine	Job Sheldon	New Haven, Conn.	
Steam engine	John Bennack	Orono, Maine	Sept. 9, 1835 May 23, 1896
Steam engine	A. S. Dawley	Boston, Mass	April 21, 1839
Steam engine	Seth Graham	Roxbury, Mass	July 9, 1838
Steam engine	Nathaniel Bosworth	Philadelphia, Pa	April 14, 1838
Steam engine *	William A. Lighthall.	Albany, N. Y	Sept. 4, 1841
Steam engine	William Whitham	Huddersfield, Eng Bellville, N. J	Jan. 24, 1842
Steam engine	Raiph Pomeroy		June 18, 1842
Steam engine	William Kelly	Pittsburg, Pa Newark, N. J	Dec. 5, 1842
Steam engine	Alexander Connison R. F. Loper	Philadelphia, Pa	Nov. 26, 1845
Steam engine	John Ericsson	New York	Dec. 20, 1845
Steam engine	H.Olney, J. H. Whelp-	110 2012 111111111111111111111111111111	
Steam engine	ley, & D. G. Raven .	Gouvernour, N. Y	June 20, 1846
Steam engine	Nathan N. Barlow	Homer, N. Y	Oct. 2, 1846
Steam engine, air pump used in	21000000		
low-pressure	Charles Reeder	Baltimore, Md	Nov. 15, 1843
Steam engine, arrangement of the		,	-
valves, &c	Daniel Barnum	New York, N. Y	Sept. 19, 1846
Steam engine, arranging cylinders			
in double cylinder engines, for	1		
preventing dead point in crank	Caleb L. Ferris	Courtland, N. Y	July 1, 1840
Steam engine, &c., apparatus to be		·	
substituted for the piston cylin-			
der of	Abram Patterson	Rush, Pa	Feb. 26, 1839
Steam engine, application of steam	Francis B. Ogden	Essex, N. J	Dec. 13, 1813
Meam engine, anti steam power	William Willis	Charleston, S. C	Feb. 1, 1838
Steam engine, auxiliary	John Cochrane	Baltimore, Md	April 16, 1845
Steam engine, auxiliary, construct-		, and the second	
ing and governing, for the pur-			
pose of supplying a steam boiler			T 1 - 04 1044
with water †	Henry R. Worthington	New York	July 24, 1844
Steam engine, boats, mills, &c	Daniel French	New York	Oct. 12, 1809
Steam engine hoots and worsels	Robert Fulton	New York	Feb. 9, 1811
Steam engine hoats	John Stephens	New York	May 21, 1012
Seam engine, and boiler	John Stephens	New York	Jan. 3, 1810
Steam engine and other boilers,			
supplying air to consume the			
		TT . 1 . AT 37	A
combustible gases, &c., that es-		Waterloo, N. Y	A.PELL 200, 1044
cape from the furnaces		************	_
	Peter Robinson		
cape from the furnaces Steam engine, centrifugal, pneumatic	Peter Robinson Charles C. Conway	New York	
cape from the furnaces Steam engine, centrifugal, pneu-	Peter Robinson Charles C. Conway Alexander M. Bouton	New York	Nov. 14, 1835
cape from the furnaces Steam engine, centrifugal, pneumatic	Peter Robinson Charles C. Conway	New York	Nov. 14, 1835 Aug. 18, 1849

magnification or discounties.	PATRICTORS.	RIMFRAMMA. '	Anth motion
Steam engine, circulating	Timothy Beach	Deer Creek, Ohio	Nov. 16, 1895
Steam engine, circulating			
apparatus for supplying the boil-			4. 11 1041
ers with water	Josephus Echels		Aug. 11, 1841
Steam engine, condenser of Steam engine, condenser for	Henry K. Stephens Joseph P. Pirsson		Dec. 4, 1843 Feb. 19, 1846
Steam engines, condenser for	Thomas Skidmore		
Steam engines, condenser for	Benjamin F. Joslin		Feb. 9, 1825
Steem engine, condensing	B. F. Joslin		Dec. 16, 1894
Steam engine, condenser and boil-			~ . ~
ers of	Benjamin Crawford	Allegheny city, Pa	Sept. 7, 1844
Steam engine, condensing appara-	Daniel Tread well	Combridge Mass	Mar. 31, 1840
Steam engine, conducting the steam	George and George W.	Cambridge, Mass	11111. 01, 1090
from the cylinder.	Davis	Canal Fulton, Ohio.	May 4, 1849
Steam engine, conical balance		00000	, .,
valves	Thomas McDonough.	Middletown, Conn	Feb. 12, 1844
Steam engine, conical seat, steam		•	·
Ve. V.08	Sprague Barber	New York	April 20, 1844
Steem engine, connecting cylinder			. 10 1045
and chest		New York	
Steam engine, connecting cranks of	Frederick E. Sickles	New York	Sept. 19, 1845
Steam engine, cutting off steam from Steam engine cut off valves	Isaac Adame Frederick E. Sickles		
Steam engine cut off valves	John Cochrane		April 16, 1845
Steam engine cut off valves	Thomas Rogers	Patterson, N. J	May 1, 1845
Steam engine, dead point, avoiding	Valentine Carter		Aug. 3, 1829
Steam engine, discharging water	·		
and air from the condenser of			Sept. 23, 1842
Steam engine, double	J. Smallman and N. J.		3501 3000
Character and how for	Roosevelt	DL:1-J-1-L:- D-	May 31, 1798
Steam engine, draft, box for Steam engine, evaporator		Philadelphia, Pa	April 5, 1838 July 26, 1816
Steam engine, expensive		Providence R. I.	June 14, 1834
Steam engine, feeder for boiler	Ogden Mallory	Oswego, N. Y.	Dec. 28, 1898
Steam engine, &c., governor or re-		Kingdom of France,	
gulator of.	i	(residing in Pitts-	Ì
a : 111		burg, Pa.)	Nov. 25, 1841
Sheam engine, high-pressure, mode		· ·	
of heating the supply water and carrying off the escape steam		Hanover, Ohio	Feb. 20, 1843
Steam engine, high-pressure, safety	Nathan Cope		
Steam engine, high temperature		Portsmouth, R. I	May 1, 1894
Steam engine, horizontal			
Sheam engine, horizontal			
Steam engine, horizontal, pistons		l	
and slide valves for			
Steam engine, hydraulic		Cincinnati, Ohio	Juno 1, 1888
Steam engine, hydraulic.—See Classical Steam engine, injet rotary		Kidderminster, Eng.	1
Steam dignio, injurious y	of James Pilbrow.	Tottingham Green	1
	Or Fullion I holow.	Tottingham Green, England	June 14, 1843
Steam engine, locomotive	William Howard	Baltimore, Md	Dec. 10, 1898
Steam engine, locomotive	8. H. Long	. Philadelphia, Pa	Jan. 17, 1833
aream engine, locomouve	Chas. & Geo.E. Sellers		
Steam engine, locomotive			
Steam engine, locomotive			
Steam engine, locomotive Steam engine, locomotive			
Steam engine, locomotive			
Steam engine, locomotive			200, 200,
	B. Thving	Lowell, Mass	Mar. 10, 1838
Steam engine, locomotive	Asa Whitney	Rotterdam, N. Y	June 27, 1849
Steem engine, locomotive	l Matthias W. Boldwir	Philadelphia, Pa	Dec. 31, 1840

Makalitoria or discorimitie	PAT ENTALS.	RECORNOS.	TORK MARIE
Steam engine, locomotive	Ross Winans	Baltimore, Md	July 29, 1048 Dec. 31, 1446
Steam engine, locomotive	Edwin F. Johnson	New York	Dec. 31, 1884
Steam engine, locomotive	Matthias W. Baldwin	Philadelphia, Pa	May 16, 1946
Steam engine, locomotive, ascend-	Davis H. Dotterer and Thomas Jackson	Danding Da	Man 05 1090
ing inclined planes. Steam engine, locomotive, blowing		Reading, Pa	Mar. 25, 1839
fire	Ross Winans	Baltimore, Md	July 29, 1837
Steam engine, locomotive, and cars		Philadelphia, Pa	Dec. 28, 1832
Steam engine, locomotive, and cars	Alfred C. Jones	Philadelphia, Pa	June 14, 1834
Steam engine, locomotive, and cars		Philadelphia, Pa	Sept. 10, 1834
Steam engine, locomotive, connect-			
ing the driving wheels of	Robert L. Stevens	New York, N. Y	Sept. 3, 1842
Steam engine, locomotive, con-			
structing, by which they adapt themselves to the curves and un-			
dulations of the road	Matthias W. Baldwin	Philadelphia, Pa	Aug. 25, 1849
Steam engine, locomotive, consum-	Francis B. Longmire		1246, 40, 1066
ing sparks.		Philadelphia, Pa	July 10, 1840
Steam engine, locomotive, distri-			
buting sand, &c., to produce ad-			
hesion of driving wheels	Elisha Tolles	New York	Oct. 9, 1841
Steam engine, locomotive, force		D1 7 1 1 1 1 ' D	D 01 1000
pump and wheels	S. H. Long	Philadelphia, Pa	Dec. 31, 1833
Steam engine, locomotive, framing Steam engine, locomotive, govern-	Ross Winans	Baltimore, Md	July 29, 1827
ing and reversing	Jacob D. Custer	Morristown, Pa	June 21, 1844
Steam engine, locomotive, for in-	Jacob D. Oustain	TOTAL PROPERTY AND AGE.	
clined planes	Sands Olcutt	Harsimus, N. J	Sept. 11, 1829
Steam engine, locomotive, for in-			,
_ clined planes*	John Ruggles	Thomaston, Maine.	July 28, 1836.
Steam engine, locomotive, increas-			
ing adhesion of driving wheel of		New York	Aug. 28, 1842
Steam engine, locomotive, propel-	John A. Etzler	Philadelphia Da	Dec 93 1941
ling by stationary power Steam engine, locomotive, and rail-		Philadelphia, Pa	Dec. 23, 1841
roads	Isaac W. Edgar	Wayne county, Ohio	July 2, 1836
Steam engine, locomotive, for rail-	Isaas William	· · · · · · · · · · · · · · · · · · ·	.,
roads	Henry Waterman	Hudson, N. Y	Feb. 10, 1841
Steam engine, locomotive, for rail-			
_ road carriages	Aifred C. Jones	Philadelphia, Pa	Oct. 10, 1840
Steam engine, locomotive, regulat-		D-1: 364	N 00 1040
ing waste steam	Ross Winans	Baltimore, Md	Nov. 26, 1846
Steam engine, locomotive, saw-mi Steam engine, locomotive, six and		14.	
eight wheeled	Ross Winang	Baltimore, Md	July 28, 1946
Steam engine, locomotive, supply-		Speedwell Iron Wks.	100, 10, 100
ing water to.		Morristown, N. J.	July 12, 1839
Steam engine, locomotive, wheels,			•
and boiler, tubes for	M. W. Baldwin	Philadelphia, Pa	April 3, 1835
Steam engine, locomotive, wheels,		D	4 17 1005
and boiler, tubes for	M. W. Baldwin	Philadelphia, Pa	
Steam engine, low pressure	Charles W. Copeland. William A. Turner	New York N C	June 11, 1841
Steam engine, making dry steam.	John Goulding	Washington co. N.C. Dedham, Mass	Oct. 25, 1834
Steam engine, marine	William A. Lighthall.	Albany, N. Y.	
Steam engine, marine	Joseph Mandalay and		
	Joshua Field	Lambeth, England.	June 11, 1849
Steam engine, mode of confining			}
the ateam to produce retary mo-	1		
tion	Richard F. Stephens	St. Louis, Missouri.	May 30, 1846
Steam engine, mode of construct	Dam Winers	Politimore Md	000 14 1046
ing locomotives	Ross Winans Zachariah Allen	Providence P I	Mar. 92 1924

^{*} Antodated July 13, 1836.

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distantinus or discondinus.	PATERTEE.	Rathmenton.	WEIGHT-HERVED.
Steam engine, opening and closing		Name Vanla	0
the valves of		New York	Oct. 19, 1844
Steam engine, pendulum	Charles F. Pike John Staples	Providence, P. I Richmond, Va	Aug. 12, 1840 July 18, 1811
Steam engine, &c., piston rods of		Cleveland, O	April 27, 1841
Steam engine, pistons of steam cylinders, constructing, &c,	Matthias W. Baldwin		Dec. 17, 1849
Steam engine, pistons and stuffing		St. Louis, Mo	July 20, 1843
Steam engine, reacting	Ambrose Foster and Wm. Avery	Salina, N. Y	Sept. 28, 1831
Steam engine, reacting, &c	Louis Brunier	France	Oct. 25, 1842
Steam engine, reacting rotary	James Black	Williamsport, Pa	Mar. 12, 1845
Steam engine, regulating the pres-	Emmaia D. Wankat	D-44 37 7	M 00 1041
sure of steam		Patterson, N. J	Mar. 29, 1841
engine Steam engine, rotary	James Frost	New York	Nov. 3, 1841
Steam engine, rotary	Isaiah Jennings	Herkimer, N. Y New York	Mar. 27, 1812 Jan. 17, 1817
Steam engine, rotary	Nathan Read	Boston, Mass	
Steam engine, rotary		Boston, Mass	Dec. 10, 1818
Steam engine, rotary			May 26, 1819
Steam engine, rotary	J. Lansing & A.Thay- er, jr	Albany, N. Y	Jan. 19, 1822
Steam engine, rotary		Albany, N, Y	Feb. 19, 1823
Steam engine, rotary	James Thompson	Pittsburg, Pa	July 16, 1823
Steam engine, rotary		Cincinnati, Ohio	April 29, 1824
Steam engine, rotary	Anthony Cooley John Gilbert	Le Roy, N. Y	July 29, 1824 Nov. 17, 1824
Steam engine, rotary		Le Roy, N. Y Pomfret, N. Y	May 20, 1825
Steam engine, rotary	John A. Wadsworth.	Portsmouth, R. I.	Sept. 27, 1895
Steam engine, rotary		Rahway, N. J	Nov. 3, 1825
	J. R. Averill and F. Hoard	Rochester, N. Y	Nov. 12, 1825
Steam engine, rotary		Nam Vanle	May 05 1996
Steam engine, rotary	Bruce, jr Elijah H. Reed	New York Lancaster, Ky	May 25, 1826 Nov. 10, 1826
Steam engine, rotary	Francis Harris	Albany, N. Y	July 10, 1827
Steam engine, rotary	Stillman Blake	Providence, R. 1	Oct. 11, 1828
Steam engine, rotary		Philadelphia, Pa	June 11, 1829
Staam engine, rotary			July 16, 1839 Oct. 1, 1830
Steam engine, rotary	Ezra Child	Philadelphia, Pa	Oct. 1, 1830
Steam engine, rotary		Baltimore, Md	Oct. 1, 1830
Steam engine, rotary	Abel Greenleaf	Paris, N. Y	April 18, 1831
Steam engine, rotary	J. Catlin & C. Fletcher		June 13, 1831 June 13, 1831
Steam engine, rotary			July 16, 1839
Steam engine, rotary	William Jones	Bradford, Va	Nov. 10, 1839
Steam engine, rotary	Charles R. Alsop A. Pott & B. F. Pom-	Middletown, Con	Jan. 21, 1833
Steam engine, rotary	E. Penny and I. N.		i '
Steam engine, rotary	William Sutton	Rochester, N Y Geneva, N. Y	Sept. 18, 1834
Scam engine, rotary	George M. Allson	Philadelphia, Pa	
Steam engine, rotary	Orson Barnes		
Steam engine, rotary	Arnold Buffam	Philadelphia, Pa	
Steam engine, rotary	Aaron Clarke		
Steam engine, rotary	Shepherd Whitman	New Albany, Ind	June 25, 1836
Steam engine, rotary	F. Carpenter	Cazenovia, N. Y	July 2, 1836
Steem engine, rotary	Roger M. Sherman	Fairfield, Ct	April 25, 1837

Beversions on discoveries.	PATRITERS.	REMEMBEROU.	Wester streets.
Steam engine, rotary	D. Grannis and D. E.		
	Brand	Collins, N. Y	July 29, 1837
Steam engine, rotary	A. Miller	Lockport, N. Y	
Steam engine, rotary	O. Wright and A. A.		
	Wilder	Warsaw, N. Y	
Steam engine, rotary	Joseph Woodhull	Rochester, N. Y	April 6, 1829
Steam engine, rotary	Roger M. Sherman	Fairfield, Ct	
Steam engine, rotary	John Drummond William H. Baker and	Elizabethtown, N. J	Aug. 3, 1839
Steam engine, rotary	Samuel H. Baldwin.	Cohoes, N. Y	Aug. 21, 1839
Steam engine, rotary	Jacob C. Robie	Binghampton, N. Y	
Steam engine, rotary	Jesse Tuttle	Boston, Mass	
Steam engine, rotary*	Jas. Jamieson Cordes,	Citizen of the U. S.	
	Edward Locke	Newport, England	
Steam engine, rotary	Isaac N. Whittlesey	Vincennes, Ia	
Steam engine, rotary	Hemon Smith	Sunbury, Ohio	June 11, 1841
Steam engine, rotary	J. A. Stewart Joseph I. Parker	Cross Plains, Ten Plymouth, Ohio	Mor 98 1839
Steam angline, roundy	Joshua T. and Benja-	Liymoun, onto	11101. 20, 1002
Steam engine, rotary †		East Greenwich, Eng	July 11, 1849
Steam engine, rotary		, ,	
	David N. Phelps	Washington, Ohio	Aug. 26, 1849
Steam engine, rotary		D 10 1 77	D 01 104
Ordani anaina matania	well Farnum	Bradford, Vt	Dec. 31, 1843
Stéam engine, rotary	Alexander K. & Wm.	Now Vork N V	A 1 10 10.69
Steam engine, rotary	S. Rider Ebenezer Ferren	New York, N. Y Haverhill, N. H	Nov 15 1845
Steam engine, rotary		Pomeroy, Ohio	
Steam engine, rotary :		Lyons, N. Y	
Steam engine, rotary		London, England	Nov. 18, 1844
Steam engine, rotary		Rochester, N. Y	
Steam engine, rotary		Philadelphia, Pa	
Steam engine, rotary Steam engine, rotary, and boiler		Philadelphia, Pa	
Steam engine, rotary, and boiler	Simon Fairman	Montgomery, Ala Lansingburg, N. Y.	May 24, 1834
Steam engine, rotary, and boiler	Ethan Baldwin	Washington, D. C	Jan. 13, 1835
Steam engine, rotary, changing			,
rectilineal for	Peter Cooper	New York	April 28, 1826
Steam engine, rotary, double cham-		Deal No II	E-1 10 1001
Steem engine return Daymonde	Joel Eastman	Bath, N. H Elizabethtown, N. J	Feb. 18, 1831
Steam engine, rotary, Drummonds Steam engine, rotary, exhausting	James Moore	Elizabethown, 14. J	June 10, 1846
the case of	Edward Locke	Newport, England	Sept. 11, 1844
Steam engine, rotary, packing	John D. Aikin	Columbus, Pa	Mar. 19, 1840
Steam engine, rotary, propelled by			
water or steam	Harry H. Evarts	Mount Morris, N. Y	Mar. 9, 1845
Steam engine, rotary, propelled by	Elemen Dents	Great Britain	Man 00 1046
water or steam	Henry Pratt	Norwich, Ct	
Steam engine, rotary, or pump Steam engine, rotary, also appli-		Horwica, Ott	1101. 0, 1001
cable to pumps	D. Crouy	Austria	June 14, 1841
Steam engine, rotary, rarified air	George Cameron	Washington, D. C.	
Steam engine, rotary, reacting	Charles Hill	Zanesville, Ohio	June 26, 1835
Steam engine, rotary, reacting	J. G. Hodgkiss		Nov. 7, 1836
Steam engine, rotary, reacting			Nov. 28, 1830
Steam engine, rotary, screw, end-		Fabius, N. Y	Feb 10 1994
Steam engine, rotary and water		- worde, 14. I	120, 12, 1004
wheel		New York	April 8, 1825
Steam engine, steam boats, &c	John Dowers, jr	Philadelphia, Pa	
Steam engine, safety	Edward D. Tippet	Washington, D. C	Nov. 23, 1834
Steam engine, slide valve to		D . 11 37 37	36 60 50
Charmanaina alida salas da	R. Worthington		
Steam engine, slide valve to	•		•
* Antedated, July 18, '40. † Eng. pat. de	tod July 13, '41. ‡ Reissued!	sep. 5, '46. Huate Eng. pat	not determined,
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EMPROPERSON OR DIACOGRAMMA.	PATRWEEDS.	randamor.	WHEN MEET.
Steam engine, applying air to the			
furnaces of	Edwin A. Stevens	Bordentown, N. J	April 1, 1849
Steam engine, tubes attaching to.	Gideon Freeborn	New York	July 8, 1896
Steam engine, valves, cut off	William H. Lighthall		Nov. 26, 1840
Steam engine, valves, cut off	Horatia Allen	New York	Aug. 21, 1641
Steam engine, valves, method of			,
connecting the action of the cut			
off*	Barnabas H. Bartol	Coldspring, N. Y	Sept. 20, 1841
Steam engine, valves, operating	John Wilder	New York	Jan. 9, 1841
Steam engines, valves, opening and			_
closing	Frederick E. Sickles	New York, N. Y	July 20, 1843
Steam engines, valves for raising	;		
the action of	Henry A. Morrill	Boston, Mass	
Steam engines, valves, safety	John S. Bakewell	Pittsburg, Pa	Dec. 21, 1839
Steam engines, valves, throttle	William Garlin	Providence, R. I	Oct. 11, 1841
Steam engine, valves, working	Robert L. Stevens and		
when the steam is cut off	Francis B. Stevens	New York	Jan. 25, 1841
Steam engine, vibrating	Phineas Davis	York, Pa	Feb. 17, 1821
Steam engine, vibrating	Nathan Rowland	Philadelphia, Pa	May 24, 1833
Steam engine, vibrating	Ebenezer A. Lester	Boston, Mass	Feb. 7, 1844
Steam engine, vibrating	J. H. Towne:	Philadelphia, Pa	Jan. 10, 1845
Steam, generating		Washington, D. C	Nov. 18, 1825
Steam, generating		Bath, N. Y	Nov. 14, 1896
Steam, generating		Albany, N. Y	Jan. 19, 1827
Steam, generating		Logan co., Ky	
Steam, generating			
Steam, generating		Philadelphia, Pa	
Steam, generating		McIntosh co., Ga	
Steam, generating		Savannah, Ga	
Steam, generating		Springborough, Ohio	
Steam, generating		Springfield, Mass	Mar. 12, 1836
Steam, generating			
Steam, generating		New York	July 1, 1836
Steam, generating		Philadelphia, Pa	Oct. 15, 1836
Steam, generating		Boston, Mass	Dec. 26, 1837
Steam, generating		New York	Aug. 3, 1838
Steam, generating	Horatio Hubbell	Philadelphia, Pa	Aug. 6, 1838
Steam, generating, and applying	Benjamin Phillips	Philadelphia, Pa	Jan. 31, 1832
Steam, generating, by anthracite	D. Collins and J. D.		
coal.	Gallup	Wilkesbarre, Pa	Oct. 12, 1826
Steam, generating, combined cok-	1	'	
ing oven and boiler	Reuben McMillen	Middlebury, Ohio	Dec. 14, 1841
Steam, generating, for forging mal-	-	1	
leable iron	Peter J. Clute	Schenectady, N. Y	
Steam, generating gas		Boston, Mass	Mar. 10, 1898
Steam generator, improvement in .			ì
-	Jacob Deardorff, and		
	Zachariah Beeson	Hagerstown, la	June 27, 1842
Steam, generating, and refiner		Hanover, Pa	Feb 23, 1833
Steam, generating, tubular		New York	Jan. 17, 1898
Steam, for propelling boats	Ralph Letton	Albany, N. Y	Aug. 29, 1810
Steam, for propelling boats	James Rodgers		Sept. 27, 1811
Steam, for propelling boats.—See	Class 7.	1	
Steam, producing	John H. Williams	Brunswick, N.J	July 6, 1819
Steam power, applying to circular	1	(ł
motion	Robert Dennis	Rahway, N. J	Nov. 3, 1885
Steam power, applying to locomo-	1	l	_
tives	John Ericson	Kingdom of Sweden	Nov. 5, 1840
Steam power, and boiler	Benjamin Gates	Ontwa town'p, M. T	Mar. 24, 1835
Steam power, increasing	N. B. Goodell	Kirtland, Ohio	Jan. 23, 183
Steam power of machinery	Peter Oberl		Dec. 18, 1813
Steam power	Elisha Bates	Mount Pleasant Ohio	July 27, 1888
Steam, avphonic machine	John Poole		Oct. 13, 1801
Steam, shooting with	Samuel Morey	Oxford, N. H	Jan. 19, 1818

^{*} Antodated March 90, 1844.

MINISTRACIO OR DASCOVINAMA.	PANNIENNI.	ratingmes.	WARM MANAGED.
Steam, supplying uniform quantity	Issac Doolittle	Bennington, Vt	June 1, 1891
Steam valves	Samuel Talbott	Richmond, Va	Feb. 28, 1845
Steam wheel, (improvement on		,	·
Rumsey's.)	of James	Kentucky	Nov. 15, 1810
Steam wheel	Amos Thayer, jr	Albany, N. Y	Aug. 8, 182.
Steam wheel	William Wilson	Henderson co., Tenn.	Mar. 13, 183
Steam whistle, mode of operating.	M. W. Baldwin	Philadelphia, Pa	May 28, 184
Steam, and working twice over	Joseph H. Lanning	Nashville, Tenn	Aug. 12, 182
Valve	Thomas B. Stillman	New York	Oct. 30, 183
Valve, apparatus for lifting and re- gulating the closing of the valves			
of steam engines	F. E. Sickels	New York, N. Y	May 20, 184
Valve, balance	Hiram Strait	East Nassau, N. Y.	June 25, 183
Valve, balance, self	John Kirkpatrick	Baltimore, Md	July 10, 183
Valve, for boilers	David B. Lee	Philadelphia, Pa	Jan. 23, 183
Valve, for boilers, and cam*	John Kirkpatrick	Baltimore, Md	May 29, 183
Valve, for boilers, revolving	Elam Young	Yate township, Ohio	Sept. 10, 182
Valve, cut-off, for steam engines	Horatio Allen	New York, N. Y	April 30, 184
Valve, cut-off, for steam engines	Stephen Parks, jr	Brooklyn, N. Y	June 11, 1849
Valve, engines	John Kirkpatrick	Baltimore, Md	May 29, 183
Valve, face plate	Stacy Costill	Philadelphia, Pa	April 13, 183
Valve, puppet	John Kirkpatrick	Baltimore, Md	Sept. 25, 183
Valve, puppet, raising, &c	William Duff and T.		
	Murphy	Baltimore, Md	Feb. 17, 183
Valve, relieving	William Lanphier	Alexandria, D. C	Sept. 2, 1820
Valve, safety	William S. Gilbert	Lower 3 Runs, S. C.	Nov. 18, 182
Valve, safety	Joseph H. Schreiner	Philadelphia, Pa	July 31, 182
Valve, safety	Samuel Raub, jr	Wilkesbarre, Pa	Nov. 8, 1830
Valve, safety	John Hadley	Bennington, N. X	Mar. 10, 1838
Valve, safety, hydrostatic	Thomas Ewbank	New York	Aug. 27, 1831
Valve, safety, piston	John C. Douglass	New York,	Jan. 30, 183
Valve, screw, puppet or throttle	E. & A. H. Young	Newcastle, Del	Jan. 19, 1833
Valve, slide	John Stevens	Hoboken, N. Y	Mar. 16, 1816
Valve, slide	A. McCausland, jr	Philadelphia, Pa	Feb. 10, 1834
Valve, slide	A. McCausland, jr	Philadelphia, Pa	Feb. 10, 1836
Valve, slide	John Kirkpatrick	Baltimore, Md	Sept. 22, 1837
Valve, sliding	Thomas Halloway	Philadelphia, Pa	Jan. 20, 1832
Valve, sliding	Andrew M. Eastwick.	Philadelphia, Pa	July 21, 1835
Valve, steam, for locomotive en-	0.77.7	D 3 1 1 1 2 D	D. 01 1000
gines	S. H. Long		Dec. 31, 1833
Valve, steam engines	Thomas B. Stillman	New York	Oct. 30, 1834
Valve, throttle	Augustus S. Dawley	Boston, Mass	April 18, 1834
Valve, of the vibrating steam en-	GD TT. 11	D 7 . 1 . 1 . 2 . D	T 00 1000
gine	Thomas Halloway	Philadelphia, Pa	
Valve, wind gudgeon	Thomas Halloway	Philadelphia, Pa	Jan. 20, 1833

^{*} Additional improvement, Oct. 6, 1837.

CLASS No. VII.

NAVIGATION,

And Maritime Implements, comprising all Vessels for conveyance on water, their Construction, Rigging, and Propulsion; Diving Dresses, Life
Preservers, &c.

LIST OF PATENTS.

CLASS VII.—NAVIGATION, and Maritime Implements, comprising all Vessels for conveyance on water, their Construction, Rigging, and Propulsion; Diving Dresses, Life Preservers, &c.

ENVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Anchors*.	J. J. Osborne, ass'ee of		
	Wm. H. Porter, of		
	Great Britain	New York, N. Y	Mar. 18, 1849
Anchor, cast iron	James S. Stoddard	Palmyra, N. Y	
Anchor, fagoting and making	J. Tucker & J. Judge.	Washington, D. C	
Anti-friction wheels, applicable to		,	•
steamboats	Julian Nicolet	Pittsburg, Pa	June 12, 183
Architecture, naval	John Thomas	Washington, D. C	April 14, 182
Architecture, naval	Christopher Hoxie	New York	Feb. 11, 1834
Ark, safety	William Hollins	Baltimore, Md	May 4, 182
Bales of cotton, floating them in			-
the form of rafts	George R. Griffith	Mobile, Ala	Sept. 25, 184
Barge and army boats, portable	_		
safety	Solomon C. Batchelor.		
Bending mast and truss hoops	Jonathan Mulford	North'n Liberties,Pa	
Bilge lever, for supporting ships	John Thomas	New York	
Bilge ways	John Thomas	New York	Oct. 10, 182
Binnacle light.—See Class 5.			
Blocks, making	Eben Whiting	Massachusetts	April 1, 180
Blocks, sheaves, moulding bushes			
or cogs for	Thomas P. Walworth	Patterson, N. J	July 15, 1816
Blocks, sheaves of	Caleb Curtis & T. C.		
-	Smith	Boston, Mass	
Blocks, sheaves of	Cyrus Alger	Boston, Mass	
Blocks, sheaves of	E. C. Toppan	Essex co., Mass	
Blocks, sheaves of	Nathaniel H. Lewis	New York	Aug. 26, 1818
Block sheaves, anti-friction bush		- C 11 - T	7
for	James Rudder	Norfolk, Va	Feb. 6, 1819
Block sheaves, cast iron, for ship-	T C	Diamond Mar	D 00 100
ping	Francis Seymour	Plymouth, Mass	Dec. 29, 182
Block sheaves, friction bushes or	T !: A - !: !!	A16 BT 37	A
boxes for	Lewis Aspinwall	Albany, N. Y	April 22, 1834
Block sheaves, and pulling blocks,	TT	Now York	T 10 1016
moulding and casting	Henry Worrall	New York	June 12, 1816
Block sheaves, or pulleys, bush-	Massa II Masshall	Clauserten Mann	T 10 100
ing, and pins for	Moses H. Marshall	Gloucester, Mass	July 10, 1834
Block sheaves, rollers for	Mark Laighton	Portsmouth, N. H.	Mar. 14, 1810
Blocks, ship's, cutting sheaves	Thomas Blanchard	New York New York	Aug. 31, 1836
Blocks, ship's, and dead eyes	Thomas Blanchard	New LOCK	Aug. 10, 1836
Blocks, ship's, finishing wooden	Thomas Dlanshand	New York	Aug 1 1094
sheaves	Thomas Blanchard Thomas Blanchard	New York	Aug. 1, 1836
Blocks, ship's, forming end pieces Blocks, ship's, forming or shaping	I nomas Dianchard	New Polk	Aug. 10, 1836
cheeks	Thomas Blanchard	New York	Aug. 31, 1836
Blocks, ship's, mortising & boring	Thomas Blanchard	New York	
Blocks, ship's, riveting plank	Thomas Blanchard	New York	
Blocks, ship's, rounding edges	Thomas Blanchard	New York	Aug. 10, 1836
Blocks, ship's tackle, countersink-	Livina Dalicialu	TIOM TAIDINGS	ug. 10, 100C
ing, &c	Thomas Blanchard	New York	Aug. 31 1826
Blocks, ship's See Wheel Hube,	Class 10	2.0# # Ozm	ne. 01, 1000
Blocks, and snatch blocks	James Evans	Charlestown, Mass	Dec. 6, 1896

^{*} English patent, dated Aug. 16, 1839.

INVENTIONS OR DISCOVERIES.	PATRUTURES.	remonyce.	WHEN MOULD.
Dische until in building generals	Tohn Williaton	Pautamouth Vo	. Nov. 6, 180
Blocks, used in building vessels	John Williston	Portsmouth, Va	
Blocks & wedges, for raising ships		Washington, D. C.	
Blubber, knife	William Ball	New York	. April 25, 182
Blubber, mincing whales	Benjamin Taber	Fair Haven, Mass.	. Aug. 11, 18
Boat, improvement in	Rufus Porter	Billerica, Mass	. May 26, 163
Boats, for ascending rivers	David Grieve	Massachusetts	. Feb. 24, 189
Boats, anu-steam	William Wadsworth.	Hartford, Conn	. July 17, 189
Boats, and arks	Thomas Symington	Baltimore, Md	July 22, 183
Boats, canal	Benjamin Phillips	Philadelphia, Pa	. April 21, 185
Boats, canal	Benajah Williams	Mendon, N. Y	Mar. 3, 182
Boats, canal	Thomas W. Bakewell	Cincinnati, Ohio	Aug. 25, 1829
Boats, canal	Ezra Reed	Pottstown, Pa	April 6, 1833
Boats, canal	John McCausland	Norfolk co., Va	June 14, 1834
Boats, canal	Edward Randolph,	Salt Creek, Obio	Jan. 9, 1838
Boats, canal	John H. Long	Lewistown, Pa	April 5, 1838
Boats, canal, bays	Abraham Morrison	Johnstown, Pa	May 15, 1837
Boats, canal, constructing in sec-	120141111111111111111111111111111111111		,,,
tions, and the manner of uniting			
them	Robert Frazer :	Waynesburg, Pa	Sept. 10, 1840
	Jacob Bromwell		June 23, 1829
Boats, canal, passage	Jacob Bromwell	Cincinnati, Ohio	Julic 20, 100
Boats, canal, passing up and down	Bulant Comme	Dunaldam N V	July 26, 1827
elevations	Robert Graves	Brooklyn, N. Y	
Boats, canal, propelled by steam.	Francis A. Dorman	Norfolk, Va	Mar. 7, 1833
Boats, canal, propelled by steam.	Anthony Plantou	Philadelphia, Pa	April 23, 1834
Boats, canal, and rivers	Silvester Doolittle	Utica, N. Y	Nov. 19, 1833
Boats, canal, and rivers	Anthony Plantou	Philadelphta, Pa	Mar. 18, 1835
Boats, canal, sheet iron, twin		Poughkeepsie, N. Y.	Nov. 26, 1835
Boats, canal, transporting from one			
_ level to another	Robert P. Bell	New York	July 13, 1827
Boats, canal, transhipment of mer-	1 .		
chandise	James O'Conner	Philadelphia, Pa	Oct. 14, 1835
Boats, chain, for inland navigation	Gordon Saltonstall	Society Hill, S. C.	July 12, 1834
Boats, cylinder		Washington, D. C.	Sept. 2, 1834
Boats, for descending rapid streams		Pennsylvania	Nov. 5, 1799
Boats, engines, for unloading and			•
removing weights	Thomas Potter, sen	Bowling Green, Ky.	Dec. 17, 1834
Boats, ferry	Thomas Cahoon	Piusfield, Mass	June 25, 1813
Boats, ferry	Matthew D. Brown	Buffalo, Va	Oct. 1, 1830
Boats, fishing	John Donn	Washington, D. C.	Mar. 6, 1835
Boats, flat bottomed, with movea-	John Bonnettiti	** daming con, D. O	
ble keel	Samuel Buel	Burlington, Ct	July 7, 1810
Boat, India rubber, portable			Jan. 15, 1846
Boats, insubmersible	Ab. Du Buc Marentille	New York, N. Y	Dec. 23, 1802
		Deltimone Md	Dec. 21, 1820
Boats, iron	Thomas J. Bond	Baltimore, Md	
Boats, life and anchor*	Joseph Francis	New York, N. Y	Jan. 11, 1839
Boats, life constructing	George James		Jan. 21, 1839
Boats, life and other	Joseph Francis	New York, N. Y	Mar. 26, 1841
Boats and other vessels of sheet			3.5 OC 1015
iron	Joseph Francis	New York	Mar. 26, 1845
Boats, for passing up rapids	Lemuel Thwing	Dedham, Mass	Aug. 12, 1820
Boats, passing over dams	Stephen Underwood	Bath, N. H	Mar. 19, 1836
Boats, portable, screw	Joseph Francis	New York	April 23, 1833
Boats, for rapids	F. W. Geissenheimer.	New York	Jan. 14, 1814
Boats and rafts, passing	Benning Sanborn	Lyman, N. H	April 11, 1836
Boats, for rivers	N. C. Dawson and A.	ľ	•
,	Rucker	Pedlar's Mills, Va	April 3, 1821
Boats, rocking or lever		New York	June 20, 1815
Boats, sub-marine gun		New York	Oct. 11, 1841
Boats, towing on canals		Reading, Pa	June 25, 1839
Boats, for transportation of pas-		Livering, La	Julio Maj
		White Hell N. V.	Ton 9 1931
sengers. Boats, for travelling on ice	Loomis	White Hall, N. Y.	Sent 14 1829
	Thaddeus Chapin	Canandaigua, N. Y.	Debr 14, 1000
	Observator III.		
Boats, twin	Charles Harris	Canandaigua, N. Y. Norfolk, Va	May 27, 1834

^{*} Antedated July 11, 1638.

. INALMAIOMS OF DISCOARIES.	PATHOTERS.	Rheidench.	WHEN ISSUED.
Boats, worked by quadrupeds Bolts.—See Class 2.	David Porter	Washington, D. C.	Feb. 8, 1831
Booms, saddle and jaws for Bulkhead, water tight, for steam-	James Davis, jr	Gloucester, Mass	Dec. 31, 184
Buoy, life	Ruggles Whiting William Flower	Louisville, Ky Philadelphia, Pa	June 6, 182 May 14, 180
Cables, chain.—See Class 2. Cables, chain and hemp, proving.	John Judge	Washington, D. C.	Nov. 29, 182 Nov. 3, 183
Cables, chain, stopper for Cables, improving the quality	M. P. Mix Nathaniel Cutting	New York	July 14, 180
Canal navigation, by boats	Samuel D. Ingham	New Hope, Pa	April 19, 183
Canal steamboat	Robert Hugunin	Albany, N. Y	Mar. 24, 182
Canal steamboat	John F. Wright	Erie, Pa	Feb. 14, 182
Capstan	Andrew Morse Calvin Oaks	Boston, Mass Rochester, N. Y	Mar. 12, 183 May 16, 183
Capstans for ships		New London, Conn.	
Capstans or windlasses, ships and	2. 2002	Trow Boadon, Comm	
cable stoppers*	John Grylls		Dec. 12, 184
Caulking ships and other vessels. Centre board, to increase the speed	Nicholas W. Chavalier		Dec. 27, 183
of vessels	Garrett Fountaine James Fales and Thos.	Staten Island, N. Y.	
ships.	B. Brown		
Chair, marine	Ab. Du Buc Marentille	New Jersey	Mar. 18, 180
Composition for vessels' bottoms.	-See Class 4.		
Constructing boats	William Hopkins	Connecticut	May 13, 180
Constructing boats	Thomas Thorpe	Washington, D. C	Aug. 31, 182
Constructing boats, safety hulls Constructing boats and vessels	G. W. Eddy Francis Rotch	Waterford, N. Y New Bedford, Mass.	Feb. 28, 183 Nov. 29, 181
Constructing boats and vessels	Francis Rotch	Pniladelphia, Pa	Aug. 3, 181
Constructing boats and vessels	William Annesley	New York	Sept. 12, 181
Constructing boats and vessels	Albert Dorman	Norfolk, Va	Oct. 25, 183
Constructing canal boats, so that they can be transferred on rail-		Dhiladalahia Da	Fab 04 194
road cars	John Dougherty John Bearce	Philadelphia, Pa Bristol, Me	
Constructing paddle wheels, and	2012	21201, 120111111	1, 250
combining the same with steam vessels	Alexander Connison	Newark, N. J	June 18, 184
Constructing ships	Samuel E. Howell	Vincent town, N. J.	
Constructing ships	David M. Randolph	Richmond, Va	Aug. 2, 181
Constructing ships	Abel Brewster	Hartford, Ct	
Constructing ships	Jos. R. Deming	Medina, Ohio New York	
Constructing ships		Boston, Mass	Dec. 17, 181
Constructing ships and boats	William Phœbus	New York	June 27, 181
Constructing ship's ceiling	Andrew M. Frink	New London, Conn.	Dec. 31, 183
Constructing ships, and navigating Constructing ships and vessels	Jer. Brown	Portsmouth, N. H	May 14 180
Constructing ships and vessels		Rhode Island Boston, Mass	April 4, 182
Constructing steamboats	Henry Burden		
Constructing ships, boats, &c., to	1711:-1 - TO A1 : 1	37 371 37.37	Tl. 0 304
Constructing steamboats. &c., to	Lusna F. Airich	New York, N. Y	July 8, 184
prevent them from sinking when coming in collision	Horace D. Forbes	New Vork N V	Feb 16 194
Constructing steam ships, propel-		TICM TOTY' II''	res. 10, 104
ling and turning	Robert L. Stevens	New York, N. Y	Oct. 17, 184
Constructing vessels	James Barron	Philadelphia, Pa	April 5, 183
Construction manual-1	TTP-111" A 1	A 11 '30" *7	24, 4 40-
Constructing vessels	William Anneslev	Albany, N. Y	Nov. 6, 183

* Euglish patent, dated Dec. 31, 1840. † October 7, 1844, extended by act of Congress for seven years, from Nov. 6, 1844.

mermusems or discoveries.	PATENTENNE.	refinence.	WASH MESS
Constructing vessels	Daniel Gerrish	Boston, Mass	July 2, 14
Constructing vessels, floating Constructing vessels, with crooked	John Denny	Queen Ann co., Md.	Oct. 3, 1
Cordage, manufacture of Dead eyes, for cutting and boring	Eliphalet Beebe Benjamin F. Adams	Pennsylvania New Bedford, Mass.	April 27, 18 June 13, 16
laniard scores Disengaging horses in navigating	Thomas Blanchard	New York	Aug. 10, 18
canals	Gottlieb Shultz Chauncey Hall	Philadelphia, Pa Connecticut	Sept. 9, 18 Dec. 24, 18
Diving dress	John R. Cambell William S Taylor	Boston, Mass New York	Jan. 20, 18
Diving machine Diving, mode of Diving suit	Richard Tripe William Brookfield William C. Davidson	Detroit, Mich	April 1, 18 July 17, 18
Diving suit	and Daniel Clark Nathaniel Wolcott Fowler Smith & Lew-	Pittsburg, N. Y Sidney, N. Y	July 26, 18 April 17, 18
Diving suit, elastic	is S. Steele Leonard Norcross	Norfolk, Va Dixfield, Maine	April 23, 18 June 14, 18
ing Explorer, submarine	John Thomas Sewall Short and Noah		
Fender, to protect boats against in-	Bradford	Barnstable, Mass	
jury from snags and sawyers Fender, for steamboats	Joseph W. Kirk E. C. Genet Popiemin Potch	Philadelphia, Pa New York	Sept. 9, 18
Fish vessels and nets	Benjamin Rotch James Wells, jr Program Martin	Bristol, England Gallaway, N.J	Dec. 17, 18
Floating batteries	Prosper Martin George Stiles	Philadelphia, Pa Baltimore, Md	Aug. 11, 18 April 4, 18
with fresh water	John F. Randolph Stacy Costill	New York Philadelphia, Pa	April 25, 18 Oct. 17, 18
Friction, lessening, in canal boats. Gaft of sail, vessel's	Peter Freeman John Brown	Morris county, N. J.	June 1, 18
Grapling irons, for raising bodies.	Ebenezer and Thomas J. Lobdell		
Guard, explosion.—See Explosion, Gum elastic, applying to vessels	Class 6. George Duncan Cooper		
Harpoon	James Long Dexter H.Chamberlain	Maryland	Aug. 5, 18
Harpoon Harpoon	Jonathan Sizer, 2d William Carsley	New London, Conn. New Bedford, Mass.	Oct. 16, 18
Harpoon	Albert Moore Richard C. Holmes	Hampden, Maine Cape May, N. J	Mar. 16, 18
Ice breaking machine	John Williams Michael Freytag	Georgetown, D. C.	Mar. 2, 18
Ice breaker	Barnabas Gillespie Walter Hunt and J.	Philadelphia, Pa New York	
Ice breaker for boats and other	Townsend	New York	•
vessels	Samuel Nicholson Nathaniel J. Wyeth Samuel Trask Robert Irvin	Boston, Mass Cambridge, Mass	July 16, 18 Mar. 18, 18
Ice cutting machine	Samuel Trask	Hallowell, Maine Baltimore, Md	April 21, 183 Jan. 12, 183
Keels of vessels	Philander Hall	New Tolk	April 2, 18
Keels of vessels, swinging Keels and kelsons, of leeboard ves-	Josiah Beale	Alexandria, D. C	Jan. 15, 18
sels	James Wiltse Robert Rogers	Fishkill, N. Y Dover, N. H	May 4, 185 Feb. 6, 185
Lee board	Jac. Swain, H. Swain,	Cape May c. h., N.J.	
'	* Disclaimes, Oct. \$4, 1540	- •	1,

enventions or discoveries.	pa tentees .	residênce.	WHEN MISED.
avadramic nulley for messuring			
Lexodromic pulley, for measuring ship's way	John S. Donlery	New York	Sept. 21, 1815
Life boat.	Lewis Raymond	New York, N. Y	Feb. 4, 1848
Life preserver, for the use of steam	20 2 y 02. u	2000 2002, 200 2000	1, 1010
beats	Michael Pearson	Newburyport, Mass.	Jan. 27, 1843
Life preserver	Henry G. De Grandval		Oct. 3, 1817
Life preserver	Ralph Bulkley	New York	May 8, 1849
Life preserver	Henry B. Bourne	New York	May 8, 1846
Life preserver	Adoniram Chandler	New York	Oct. 3, 1844
ife preserver, applicable as buoys,	J. Francis, assignee of		May 10, 1844
rafts.*	C. Aug. de Liancourt		
ife preserver, or buoyent dress	Rufus Porter	Bellerica, Mass	May 25, 1840
life preserver, or buoyant dress	Napoleon E. Guerin.	New York, N. Y	Nov. 16, 1841
	buoyant.		1
Life preservers, rendering chairs, &c., buoyant	William H. Shecut	New York, N. Y	Mar. 9, 1842
Life preserver, safety	John J. White	Philadelphia, Pa	April 7, 1838
Lifting ships out of water	Thomas Ballard, ass'ee		11pin 1, 1000
mand surps out or water	of Thomas Evans	New York	May 28, 1836
Lights, glass, for ships	Joshua Oaks	Boston, Mass	May 11, 1822
Lights, glass, for decks of ships	George Gray	Lynn, Mass	Mar. 26, 1825
log, for ships	Chester Gould	Philadelphia, Pa	May 27, 1799
Mallet, screwing and worming	John B. Petitval	Charleston, S. C	July 11, 1837
Marine railway See Class 9.		,,	
Mast and truss hoop, bending	Jonathan Mulford	North nLiberties, Pa.	Jan. 16, 1835
Metallic compound, for sheathing	ships.—See Class 4.		
Mercantile house, navigable	Roger Haskell	Geneva, N. Y	July 7, 1821
Moulds, for shaping timbers of			
boats	James Wallace	Rochester, N. Y	Aug. 9, 1831
Navigating and ferrying rivers	Ed. Clark	Philadelphia, Pa	June 25, 1823
Navigating rivers	Joseph Godley	Alexandria, N. J	Feb. 22, 1823
Navigating rivers in shoal waters.	Michael Williams	Albany, N. Y	Feb. 24, 1809
Navigation, improvement in	Anthony Hunn	Danville, Ky	Mar. 24, 1804 Jan. 31, 1827
Navigation, improvement in Navigation, machinery used in	John J. Giraud Adolph Heilbronn	Baltimore, Md New York	Mar. 16, 1829
Navigation, machinery used in	Franklin G. Smith	Lynchburg, Va	Oct. 12, 1830
Navigating and propelling vessels	Transmir G. Simon	Zynenouig, vantit	2000
by wind and wavest	John A. Etzler	Philadelphia, Pa	April 1, 1842
Navigation, steam, by which the			
submerged propeller is made to			
operate as an air pump and con-			
denser	William W. Hunter	Gosport, Va	Mar. 12, 1842
Navigation, steam	John M. Patton	Milton, Pa	Feb. 4, 1830
Navigation, steam, &c., application	William W. Van Loan	New York	Jan. 15, 1831
Navigation, steam, internal	James Renwick	New York	Nov. 7, 1823
Dar head	Cornelius Seaman	Washington co., Md.	Aug. 15, 1817
Dar head	John Orbison	Piqua, Ohio	May 27, 1820
Parcelling ropet	Obed Kempton	New Bedford, Mass.	Sept. 25, 1837
Pedrometer, sea—See Class 8.	A	88	NT 10 1700
Perambulator, nautical	Amos Whittimore	Massachusetts	Nov. 19, 1796
Planking vessels	John Thomas	Washington, D. C.	Dec. 2, 1822
Planking vessels	Wm. Scarbrough	Darien, Ga	May 19, 1824
Planking vessels	Thomas Blanchard	New York	Mar. 20, 1834
Pluga cutting		New York	Mor 3 1898
Plugs, cutting	James Josselyn	TIOM TOTAL	0, 1040
	Chris. Josselyn	New York	June 28, 1826
OI SHIDS			, 2040
of shipsPlugs, cutting, for ships, by a cen-	,		
Plugs, cutting, for ships, by a cen-	-	Nobleborough, Me .	April 19, 1832
Plugs, cutting, for ships, by a cen- tre point spring bit	Daniel Flint	Nobleborough, Me .	April 19, 1832
Plugs, cutting, for ships, by a cen- tre point spring bit	Daniel Flint	, -	_
Plugs, cutting, for ships, by a centre point spring bit	Daniel Flint Jesse Reed	Marshfield, Mass	July 22, 1838
Plugs, cutting, for ships, by a centre point spring bit Plugs, and trunnel geared machine, for ships Power, maintaining, applied on board ships	Daniel Flint Jesse Reed David Pearson	Marshfield, Mass Newbury, Mass	July 22, 1838 Jan. 24, 1816
Plugs, cutting, for ships, by a centre point spring bit	Daniel Flint Jesse Reed David Pearson	Marshfield, Mass Newbury, Mass	July 22, 1838 Jan. 24, 1816

INVENTIONS OR DISCOVERIES.	patentees.	RESIDENCE.	WHEN ISSURI
Preserving vessels from decay, by			
charcoal	Anthony Plantou	Philadelphia, Pa	Oct. 1, 18
Preserving vessels from worms	Raphael Peale	Newbury, Mass	Dec. 14, 17
Preserving wood from marine in-		•	,
sects	Robert L. Nichols	Easton, Md	Feb. 23, 18
Propeller	Horatio Hubbell	Moyamensing, Pa	July 14, 18
Propeller	Leonard Phleger	Wilmington, Del	Sept. 13, 18
Propeller	George W. Fulton	Brazoria, Texas	Aug. 26, 18
Propeller, compensating	Josephus Echols	Columbus, Ga	May 9, 18
Propellers, mode of elevating and	Pesspiras Zonoisititi	Columbus, Gu IIIII	1.2.0
depressing	R. F. Loper	Philadelphia, Pa	Nov. 26, 18
Propeller, screw	John Ericsson	New York	Sept. 9, 18
Propellers, shipping and unshipp-	John Bridgeom	INCW I OIR	Dept. 3, 10
ing	Stephen R. Parkhurst.	New York	Nov. 26, 18
Propeller, spiral, for boats			
Propeller, submarine	Josiah Copley	Warrior Marsh, Pa.	
Propeller, submerged	John L. Sullivan	Boston, Mass	Mar. 24, 18
	Samuel B. Howd	Arcadia, New York.	June 14, 18
Propelling, alternate lever for	Robert Smith	Port Gibson, Miss	June 9, 18
Propelling ball proof vessels, by	TTL C	G	34 - 10 10
steam applied under water	Thomas Gregg	Connellavulle, Pa	Mar. 19, 18
Propelling boats	Daniel Keller	Pennsylvania	May 25, 17
Propelling boats	John Martin	New York	Nov. 21, 17
Propelling boats	Josiah Shackford		Mar. 21, 17
ropelling boats		Pennsylvania	Nov. 24, 18
ropelling boats	John Heavin	Montgomery co., Pa	April 17, 18
ropelling boats	James A. Pearce	Louisville, Ky	April 7, 18
Propelling boats	Philemon Heaton, M.	-	-
	B. Boyes, and Phile-		!
	mon Heaton, jr		Mar. 4, 18
Propelling boats	William Wadsworth .	Hartford, Conn	Mar. 15, 18
ropelling boats	A. G. D. Tuthill		Mar. 22, 18
Propelling boats	Gabriel Manny		June 8, 18
Propelling boats	J. P. Durand	New York	Jan. 17, 18
Propelling boats	Jos. Cerneau	New York	Mar. 6, 18
ropelling boats	John J. Giraud		
ropelling boats	Rennee St. Deprest	New York	May 9, 18
ropelling boats	Thomas Kearsing	New York	June 6, 18
ropelling boats	Henry Farnham	Albany, N. Y	Sept. 5, 18
ropelling boats	Abm. Taylor	New York	Nov. 18, 18
ropelling beats	Jer. Gray	Peekskill, N. Y	Nov. 19 19
ropelling boats	Abm. Bartholomew	Albany, N. Y	Nov. 18, 18 Dec. 1, 18
ropelling hoats	James Lyon	Stateshum S. C.	
ropelling boats	John J. Giraud	Statesburg, S. C	April 3, 18
Propelling boats	Josep Coop and Pari	Baltimore, Md	April 19, 18
askamile against the transfer of		Handend N V	T 11 10
Propelling boats	Hyde	Hartford, N. Y	July 11, 18
ropening bodes	J. C. Chittenden and A	0. 1 37 37	
Propelling hoese	W. Delano	Stephenson, N. Y	May 1, 18
Propelling boats	Henry R. Teller	Schenectady, N. Y.	Sept. 28, 18
Propelling boats	Chauncey Crafts	Woodbury, Conn	Mar. 29, 18
Propelling boats	Elisha Fuller	Providence, R. I	Mar. 2, 18
Propelling boats	Josiah White	Mauch Chunk, Pa	June 11, 18
ropelling boats	Timothy Beach	Wilmington, Ohio	April 2, 18
ropelling boats		Rochester, N. Y	Nov. 20, 18
Propelling boats	Jarvis Ring	Wilmington, Ohio Rochester, N. Y Ogden, N. Y	Oct. 25, 18
ropening coats	William Burk	w nitemarsh. Pa	Dec. 2.18
ropening boats	Gideon Hotchkiss	Windsor, N. Y	June 2, 18
ropelling boats	Philander Noble	Westfield, Mass	Jan. 20, 18
ropelling boats	Philip C. Traver	Rhinebec, N. Y	April 30. 18
Propelling boats	James H. Street	Philadelphia, Pa	Dec. 27, 18
rropelling boats across ferries	Stenhen Ross	Trov N V	CC+ 20 19
Propelling boats by animal nower	Henry Voight	Philadelphia Pa	Aug. 10 17
Propelling boats by animal power Propelling boats by animal power	Moses Rogers	New York	Reh. 0 19
		2 AVILLANDON	2, 10
Propelling boats by animal power	Moses Rogers	Now York	Mon 9 10

INVENTIONS OR DISCOVERIES.	PAT SHYERS.	relisher	AMBK Militor
Propelling boats, apparatus for	Samuel Stillwell and		
	Dan'l T. Wandell	New York	June 3, 1808
Propelling boats, &c., apparatus		Albian Illinois	Dec 14 1940
for, &c	Hugh Ronalds	Albion, Illinois	Dec. 14, 1840
others	Wm. Leavenworth	New York, N.Y	April 18, 18 39
Propelling boats on canals, &c., by steam	Mellen Battel	Albany, N. Y	Oct. 14, 1840
Propelling boats, by application of	Intelled Datest	money, 11. 2	24, 1040
condensed air	John L. Sullivan	Boston, Mass	Mar. 24, 1817
Propelling boats, or carriages Propelling boats, or carriages, &c.	Timothy Davis Barnabas Langdon	Lawrence, Ind Whitehall, N. Y	Mar. 15, 1828 Feb. 22, 1817
Propelling boats, canal, &c	Levi Burnell	Elyria, N. Y	May 21, 1834
Propelling boats, canal, &c	John Finley	Baltimore, Md	April 17, 1837
Propelling Loats, canal	Nathaniel Bingham & Pliny Warner	Rochester, N. Y	Dec. 15, 1828
Propelling boats, canal, &c	Samuel D. Bennett	Butternuts, N.Y	Jan. 30, 1829
Propelling boats, canal	Jer. Smith and John	N7 371.	N 10 1000
Propelling boats, double stern,	Brown	New York	Nov. 19, 1833
wheel for	John L. Sullivan	Boston, Mass	Dec. 10, 1818
Propelling boats, elastic floor for	Oliver Phelps	Lansing, N. Y	Nov. 17, 1821
Propelling boats by endless chains of paddles	Appleton Bragg	New York	Jan. 24, 1842
Propelling boats and extinguishing	Stephen Bates & Geo.	200	
fire. Propelling canal and other bests	Titcomb	Boston, Mass	Mar. 4, 1842
Propelling canal and other boats Propelling canal boats, &c	Henry R. Worthington Josephus Echols	New York Columbus, Ga	Feb. 2, 1844 Nov. 26, 1845
Propelling canal boats and other			
vessels Propelling boats, ferry	Wm. P. McConnell	Washington, D. C.	May 16, 1846
Propelling boats, horse power	Robert Spedden Daniel French & Pliny	Easton, Md	Aug. 26, 1819
December 1	Bliss	Hamilton, Ohio	Jan. 22, 1820
Propelling boats, horse power Propelling boats, horse power	Rodman Bowne	Pennsylvania	June 19, 1795
Propelling boats, horse power	Moses Crafts	Troy, N. Y	July 18, 1816 Feb. 13, 1809
Propelling boats, horse power	Salmon Fuller	Clark county, Ind	Feb. 19, 1811
Propelling boats, horse power Propelling boats, horse power	David Dunham Moses Isaacs	New York Philadelphia, Pa	June 28, 1814 Mar. 17, 1818
Propelling boats, horse power	Barnabas Langdon &	I madeipma, I a	Mai. 17, 1010
December have have	Jno. C. Langdon	Troy, N. Y	June 5, 1819
Propelling boats, horse power Propelling boats, hydraulic, against	Barnabas Langdon	Troy, N. Y	May 1, 1821
currents	William Shultz	Philadelphia, Pa	Mar. 28, 1812
Propelling boats, hydraulic appa-		-	
Propelling boats by jets of water.	Benjamin Phillips Thoreas W. Reily	Philadelphia, Pa McMinn co., Tenn .	Aug. 16, 1828 Jan. 24, 1842
Propelling boats, by levers and	Thomas Williams	incommission, round .	21, 1012
_ weights	John T. Schenck	New York	Oct. 23, 1812
Propelling boats, by lever wheels. Propelling boats, machinery for	Roswell Hopkins William R. Lowerie	Hopkinson, N. Y Flushing, N. Y	Mar. 25, 1808 Mar. 29, 1820
Propelling boats, machinery for	John J. Giraud	Baltimore, Md	Jan. 3, 1821
Propelling boats, by man power Propelling boats, method of	Alexander Renoir	New Orleans, La	
Propelling boats, &c., oblique pad-	Meredith Mallory	Urbana, N. I	Aug. 4, 1841
die propeller	Ralph Bulkley	New York	Mar. 13, 1844
Propelling boats and other vessels.	Benj. D. Beecher	Prospect, Conn	Dec. 31, 1839
Propelling boats and other vessels. Propelling boats by pumps	Gerret Urkson MayerUlman & Moses	Pittsburg, Pa	Mar. 26, 1845
	Isaacs	Philadelphia, Pa	Mar. 17, 1818
Propelling boats, by a revolving lever		Rinkely Ala	July 10, 1822
Propelling boats, rowing	Lewis Marchand William Shaw	Blakely, Ala Otsego, N. Y	Feb. 19, 1812
The same 11 to 1	DJ. D D' ' 1	Mount Morris, N. Y	NT 09 109K

MANUSCH OF DIMEGREES.	PATEMETES.	Remaines.	MEER 100Mid.
The state has some wheel	James Widdefield	Philadelphia, Pa	Oct. 11, 191
Propelling boats, by screw wheel.	John L. Smith	Charleston, S. C	Sept. 18, 18
Proposing boats, by screw wheel.			Dec. 30, 1816
Propelling boats, by screw power	Henry W. Wheatly	New York	Dec. 00, 1010
Propelling boats, &c., segment spi-	7 7 7 1	Anna Amadall Md	00 184
ral propellers	John Laing	Anne Arundell, Md.	Oct. 22, 1849
Propolling boats, by setting poles.	Robert Kenny	Augusta county, Va.	June 17, 1820
Propelling boats, ships*	Elisha F. Aldrich	New York	July 30, 1841 Aug. 26, 1791
Propelling boats, by steam	John Fitch	Philadelphia, Pa	Aug. 20, 1731
Propelling boats, by steam	Jehosaphat Starr	Connecticut	April 28, 1797
Propelling boats, by steam	Nich. J. Roosevelt	New Jersey	Dec. 1, 1814
Propelling boats, by steam	William Tatham	Washington, D. C.	April 8, 1816
Propelling boats, by steam	Samuel Bolton	Philadelphia, Pa	Nov. 1, 1810
Propelling boats, by steam See	Class 6.		3.5 0 1005
Propelling boats, by step wheel	F. Waterman, 3d	Washington, D. C	May 9, 1823
Propelling boats, by two-horse en-			
gine	Benjamin F. Joslin	Schenectady, N. Y.	Aug. 21, 1824
Propelling boats and vessels	James Rumsey	Berkley county, Va.	Aug. 26, 1791
Propelling boats and vessels	Alexander Anderson .	Philadelphia, Pa	Aug. 21, 1819
Propelling boats and vessels	William J. Lewis	Virginia	Feb. 3, 1819
Propelling boats or vessels	David Cooke	Jersey city, N. J	April 16, 1819
Propelling boats and vessels	John J. Giraud	Baltimore, Md	Dec. 12, 1826
Propelling boats, on water or land	Benjamin Taylor	New York	April 25, 1809
Propelling boats, by weights	Moses Martin	Woodbridge, N. J	July 8, 1816
Propelling boats, by wings	Jos. S. Dyster	Baltimore, Md	Feb. 9, 1820
Propelling boats, working mills	William Shaw	Otsego, Y. Y	June 5, 1819
Propelling, chain paddle wheel for		Middletown, Pa	April 6, 1830
Propelling, circular levers for	John Turner	Marcellus, N. Y	Mar. 12, 1625
Propelling, inside lever wheel for.	John J. Giraud	Baltimore, Md	Dec. 1, 1829
Propelling paddles for boats	Richard Claiborne		Feb. 23, 1802
Propelling paddles for boats	Philip E. Barbour	- · · · · · · · · · · · · · · · · · · ·	Jan. 27, 1825
Propelling paddles for boats	John Cechran		April 28, 1836
	John J. Greenough	Boston, Mass	Aug. 18, 1837
Propelling paddles for boats			Sept. 22, 1838
Propelling paddles for boats	Isaac McCord		Nov. 9, 1842
Propelling paddles, buckets	A. R. Chase		Mar. 2, 1811
Propelling paddles, chain	Azahel Pierson		June 13, 1812
Propelling paddles, and chain wheel			June 6, 1817
Propelling paddles, folding boat	Ebenezer Jenks	Colebrook, Conn	Dec. 23, 1814
Propelling paddles, or flutter wheels		Washington, D. C.	April 28, 1818
Propelling paddles, ships	John L. Sullivan	Boston, Mass	Whin wo' Toro
Propelling paddles, used as ice	377 L. 3-1 37 D	Wannington Do	July 29, 1837
breakers	Wash'gton Van Dusen		Sept. 18, 1827
Propelling paddles, water	J. J. Giraud	Baltimore, Md	No. 90 1898
Propelling paddle wheels	Jacob Perkins	London, England	Nov. 20, 1829 Dec. 8, 1826
Propelling paddle wheels	William F. Kiersing	New York	
Propelling paddle wheels	Wm W. Van Loan	Cattskill, N. Y	Mar. 29, 1841
Propelling paddle wheels	P. G. Gardiner	New York, N. Y	May 4, 1841
Propelling paddle wheels	Jesse Ong	N. Huntington, Pa	May 22, 1837
Propelling paddle wheels	Benjamin M. Smith	Rochester, N. Y	May 22, 1835
Propelling paddle wheels of canal		l	- 10 1041
boats	Thomas Jackson	Reading, Pa	Jan. 16, 1841
Propolling paddle wheels, and con-			
necting two vessels	Benjamin Phillips	Philadelphia, Pa	June 13, 1831
Propelling paddle wheels, floats for			
boats	Francis W. Stevens	Chigwell, England	Sept. 5, 1899
Propelling paddle wheels, gearing	B. S. Doxey	Baltimore Md	Feb. 9, 1821
Propolling paddle wheels, hori-	Ephm. Buck, assignee	ļ i	
zontal.	of Peter Lear		Feb. 20, 1644
Propolling paddle wheels, lock			
canal.	H. L. B. Lewis	Buffalo, N. Y	Nov. 2, 1830
Propelling paddle wheels, steam			
boats	Timothy Hunt	Boston, Mass	Peb. 17, 1962
Propolling paddle wheels, steam	-	1	
boats	James P. Espey	Philadelphia Pa	May 29, 1833
	·		
-			ı

^{*} Antedated Jap. 30, 1841.

MANIMATERING OR DIRECTMENTS.	PATRIMPRING»	randance.	Maint middo.
Propelling paddle wheels, steam			
boats Propelling paddle wheels of steam-	William A. Douglass.	Albany, N. Y	July 31, 1837
boats*	Richard D. Chatterton	Derby, England	July 24, 1844
Propelling paddle wheels for steam and other boats	Matthew W. King	New York	Jan. 15, 1840
Propelling paddles of steam and other boats	Samuel Swett, jr	Chelsea, Mass	May 11, 1841
Propelling paddles, steam and wa- ter wheels	William F. Julian	Hartsville, Ia	June 7, 1841
Propelling paddles, vibrating for boats	Peter Lear	Boston, Mass	
Propelling polygonal wheel, and chain paddles.	T.ElmerandA.Pierson	•	·
Propelling propeller, rotary inclin-			
ed, for vessels Propelling propeller, submerged	Richard F. Loper Peter Von Schmidt	Philadelphia, Pa Washington, D. C	May 30, 1844
Propelling propeller, submerged, coupling the shafts of, for steam-			
boats Propelling, rowing machine	Richard F. Loper Ebenezer Bryant	Philadelphia, Pa New London, Conn.	Oct. 9, 1844 Jan. 13, 1806
Propelling, sculling boats by steam	James Hunt	East Chester, N. Y.	Mar. 11, 1812
Propelling, sculling boats by steam		Philadelphia, Pa	Dec. 17, 1812
Propelling ships	Anthony Hermange	Baltimore, Md Baltimore, Md	May 31, 1826 Nov. 26, 1826
Propelling ships, (on Hermange's	•		
and Steenstrup's) Propelling ships	Anthony Hermange John Ericsson	Baltimore, Md New York	
Propelling ships and other vessels		Bozrah, Conn	
Propelling spring, and marine valve	William Willis	Charleston, S. C	May 2, 1826
Propelling steamboats	John Sheffield and Jo-	Data same N V	M 17 1006
Propelling steamboats, canals	nas Ingraham John Elgar	Erie county, N. Y Baltimore, Md	May 17, 1839 Nov. 7, 1838
Propelling steamboats Propelling steamboats, and other	James McCurdy	Norwich, Ct	Sept. 18, 183
vessels	William Scarbrough	Savannab, Ga	April 8, 1830
Propelling steamboats and other vessels	Isaac Theal	New York	Dec. 24, 1834
Propelling steamboats and other boats	Gabriel H. Moreau	France	Jan. 26, 1844
Propelling steamboats and other vessels	Truman Cook	New York, N.Y	May 12, 1845
Propelling steam and other boats!	Francis Pettit Smith	London, England	
Propelling and steering boats	Thomas L. Jones	New York, N. Y	July 16, 1846
Propelling vessels Propelling vessels	Abijah Babcock	New York Philadelphia, Pa	Dec. 2, 1794 Sept. 13, 1794
Propelling vessels	Benjamin Wynkoop Charles Stoudinger	New Jersey	
Propelling vessels	John J. Giraud	Baltimore, Md	Nov. 22, 1820
Propelling vessels	Hull Case	Norwalk, Ohio	Aug. 13, 1820
Propelling vessels	Felix Peltier	New York	
Propelling vessels	John Eriesson Daniel Fitzgerald	Kingdom of Sweden New York	
Propelling vessels by animal power	J P. Durand	New York	
Prop ling vessels by the buoyansy	Culmantan TRF TT-11	The N V	Now 6 104
of air	Stephen Rudd	New York	Tune LA 1816
Propelling vessels, cylinder for	Benjamin Philling.	Philadelphia. Pa	Jan. 23, 1836
Propelling vessels, improvement in i	Bennet Woodwork	Manchester, England	April 4, 1846
Propelling vessels, by means of continuous streams of water	Robert S. Schuyler	New York, N. Y	Mar. 17, 184
			, , , , ,
Propelling vessels, paddies, and less chain.	Beriah Doudans	Albany, N. Y	Sept. 28, 1841

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mentions or discovages.	PASESTYBUS.	arinemes.	HIRM MOUND.
Propelling vassels at sea	Elizah Bryan		Dec. 22, 188
Propelling vessels by screw	John J. Giraud	Baltimore, Md	April 29, 136
Propelling vessels by steam, hori-			
zontal shifting paddle	Horace Everett	Windsor, Vt	
Propelling vessels, screw propeller	Ebenezer Beard		
Propelling wheels for boats	William Kelly		July 12, 1834
Propelling wheels for boats	William Kelly		
ropelling wheels for boats			
Propelling wheels for boats	James Prince	New York	Oct. 2, 1826
Propelling wheels for boats		Beverly, Mass	Nov. 13, 1826
Propelling wheel	Daniel Deshon, 2d	New London, Conn.	April 4, 1846
Propelling wheels for boats, (on			4 344 4004
Astrum's and Bolton's	Phineas Palmeter, jr,		April 14, 1831
Propelling wheels for boats		Milibury, Mass	April 30, 1831
Propelling wheels for boats, by		[D 11 1015
animal power	Anthony Olney	Canton, Mass	Dec. 11, 1817
Propelling wheels for boats, by			
animal power	John S. Trott	Boston, Mass	June 2, 1818
Propelling wheels for boats, elastic			
OOLE	Lewis Latour		Feb. 16, 1813
Propelling wheels for boats, elbow			
_ for	Raiph Bulkley	New York	April 24, 1894
Propelling wheels for canal boats.		Richland, N. Y	Oct. 1, 1830
Propelling wheels for horse boats.			Nov. 18, 1818
Propelling wheels, inside lever for		Baltimore, Md	Dec. 1, 1829
Propelling wheels for steam boats.		Baltimore, Md	Sept. 15, 1825
Propelling wheels for steam boats.		Hoboken, N. J	April 10, 1827
Propelling wheels for steam boats.	David Hulme	Bergen, N. J	
Propelling wheels for steam boats.			Feb. 25, 1835
Propelling wheel for steam ships,			3.5 00 1041
water and wind wheel.	liam J. Cocke	Portsmouth, Va	Mar. 29, 1841
Pumps, ships.—See Class 11.	77777	n	37 4 100F
Raft	William Deane	Pittsburg, Pa	Nov. 4, 1805
Raft, constructing		Westbrook, Maine	Jan. 13, 1824
Raft, timber		Chanceford, Pa	Feb. 14, 1818
Raft, wreck		New Jersey	Mar. 18, 1803
Raising canal boats for repairing.		D	M 11 1090
Onining ships &s and of makes	F. Palmer	Beaver Medow, Pa	May 11, 1839
Raising ships, &c., out of water	John H. Greene	Providence, R. I	May 26, 1828
See lifting ships out of water.	Theodon P Timber	Aubum N V	A
Raising sunken vessels	Theodore R. Timby	Auburn, N. Y	April 21, 1849
Raising sunken vessels, machinery		Vanna and Mana	Dag 10 1041
for	John Custis	Yarmouth, Mass	Dec. 10, 1841
Raising vessels	Thomas R. Gedney	Washington, D. C.	Aug. 9, 1833
	Benjamin Bruff	Rochester, N. Y	Sept. 13, 1831
Raising vessels	Tobias Cook	Scituate, Mass	June 30, 18 36
Raising vessels, and carrying	Hiram L. Meeker and	and New York city	May 05 1929
Paining wassels, and Apating	J. Bergen.		May 25, 1838
Raising vessels, and floating	Samuel Carson	Woodside, England.	July 12, 1838
Raising vessels, by sliding ways	Thomas Sheffield Benjamin Waterhouse	Green county, N.Y.	
Raising vessels for repair		Men Tolk	April 15, 1836
Raising vessels, sunken	William Atkinson and	Now Vouls	Dec. 2, 1835
Paining manula out of water	Tohn T Mousen	New York	
Raising vessels out of water Raising vessels out of water	John T. Morgan	Elmyra, N. Y	Oct. 9, 1806 Mar. 5, 1831
Raising vessels out of water*	Thomas Bell	Brookhaven, N. Y.	Nov. 14, 1838
Rapid jack, for ascending rapids.	Augustus Sacket	New York	July 3, 1809
	Stephen Waterman and		_ *
Rigging blocks of ships	Isaac D. Russell	New York	Jan. 31, 1844
		TIOM TOTE)	
lipping forming and viscing the			
Rigging, forming and rigging the	Warmen C Choete	Washington D.C.	April 17 1944
sales of square rigged vessels	Warren C. Choate	Washington, D. C	
	Warren C. Choate Wm. H. Allen, U.S.N. Benjamin W. Booth	Washington, D. C Killed by the pirates Washington, D. C	April 25, 1822

INVENTIONS OR DISCOVERIES.	PATENTEES.	REMDENCE:	WHEN IMPED.
Dinbing massale	Stanhan Samu	Pandentonn N Y	Mar. 9 1988
Rigging vessels	Stephen Sayre	Bordentown, N.J Boston, Mass	
Rudders	Andrew Watkins	Salem, Mass	
Rudders	Samuel Kepner		Mar. 4, 1836
Rudders, hanging and securing	Richard M. Taylor	New York	Feb. 14, 1833
Rudders, hanging	John Shaw	Philadelphia, Pa	
Rudders, side, for steamboats	John L. Sullivan	Boston, Mass	Dec. 11, 1818
Sails, measuring, instrument for	John Dominis	Now in the Sand-	·
		wich Islands	Sept. 30, 1842
Sails of ships, regulating	Jos. S. Sampson	Boston, Mass	July 5, 179 3
Sails for ships, &c., making and			D. 0.1000
furling	John Wade	Boston, Mass	Dec. 6, 1836
Scows and boats	Elisha Sherman		
Scows, for sand	Rufus Elliot	Georgetown, D. C	Feb. 14, 1818
Screw cogs, for sheaves of ship's blocks	Rhodes Kingsbury	Roth Ma	May 22, 1830
Sheathing vessels	Henry Guest		Jan. 26, 1801
Ships' anchors	N. P. Isaacs and Jas.	ricw sersey	Juli. 20, 1001
wante anonomic transfer to the contract of the	Raisbech	New York	July 5, 1845
Ships' cables, relieving	Levi Bissell	Brooklyn, N. Y	Feb. 28, 1845
Ships, cellars, &c., mode of calking	Levi Bissell William Bennet	New York	April 20, 1844
Ships, machine for ascertaining			
the velocity, &c	James D. Woodside.	Washington, D. C.	Mar. 17, 1829
Ships' moorings*	Alexander Mitchell	Belfast, Ireland	April 1, 1845
Ships and other vessels, stengthen-			
ing the sails of	Archibald Trail	Great Britain	Sept. 24, 1844
Ships, preventing dragging their	n .n	25.11	NT OF 1000
anchors, &c	Russel Evarts	Madison, Ct	Nov. 25, 1839
Ships, sails for	James Maull	Philadelphia, Pa	Dec. 11, 1845
Shrouds, &c., of vessels tightening Signals for vessels	David Stackpole Nathaniel Shaler	Portland, Me	Oct. 10, 1834 Feb. 21, 1810
Sounding instruments	Henry S. Stellwagen.	New York	Dec. 31, 1842
Sounding instrument, for ascer-			200. 01, 1042
taining the depth of water	John Ericason.	den	July 19, 1837
Staging, swing		Washington, Mass.	Feb. 16, 1829
Steamboat	Edward West		July 6, 1802
Steamboat	John Evelett	Boston, Mass	April 23, 1812
Steamboat	Daniel Dodd		Feb. 2, 1814
Steamboat, anti-friction wheels	Julian Nicolett	Pittsburg, Pa	June 12, 18 35
Steamboats, bail wheel for raising	II D. Barker	N. V. I. N. V	M 00 1049
water from the hold of	Horace D. Forbes		May 26, 1843
Steamboat, chain float	Michael Morrison		Jan. 17, 1811 Nov. 7, 1835
Steamboats constructing to pre-	John Elgar	Daumore, Mu	1107. 1, 1000
Steamboats, constructing to pre- vent sinking	Richard McDonald	Harrishurg Pa	Nov. 10, 1841
Steamboats, constructing and pro-	Iddaid McDonad	mariabuig, ra	11011 10, 1011
pelling spirally	Thomas J. Wells	New York	Dec. 23, 1841
Steamboat and engine	D. Large & F. Grice	Philadelphia, Pa	Dec. 17, 1812
Steamboat, for passage of rapids.	Thomas Blanchard	Springfield, Mass	Mar. 25, 1831
Steamboat, propelling by poles	Mellen Battle	Herkimer, N. Y	Mar. 27, 1812
Steamboat, for shallow water	Benjamin Phillips	New York	April 28, 1826
Steamboats, preserving their equi-	Samuel N. Purse and	:	
librium.	Martin Staley	Ashley, Mo	Dec. 31, 1839
Steamboats, preventing from sink-		N 37 1 N 37	4 107 1040
ing	Lovel G. Mickles	New York, N. Y	April 25, 1843
Steam vesselst, constructing and		United States navy	Mar. 12, 1841
propelling.	Benjamin Harris Samuel Nicolson	Norfolk, Va	
Steering apparatus for ships, &c. Steering apparatus for vessels		Boston, Mass	Sept 12, 1837
www.mg apparatus tot ressets	George W. and E. B. Robinson	Boston, Mass	Sent. 30 1949
Steering boats, brace for	Howard Nichols	New Bedford, Mass	
Steering helm wheel			
Steering tiller wheel	Cornelius Tiers and	1	_
	Joseph Myers	Philadelphia, Pa	Jan. 18, 1830
* Date of foreign patent, July 4, 1833.			
12	,	, ,	
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INVENTIONS OR DISCOVERIES.	PAT ENTERS.	residence.	when 1460ed.
Steering ships &c	Michael Pierson	Newburyport, Mass	April 1, 1829
Steering ships, &c		Duxbury, Mass	
Steering steamboats, apparatus for		Madison, Ct	
Steering vessels			
Steering vessels	SmallmanS. and G. Clark and	Philadalphia, Pa	Sept. 18, 1816
occing voscioi i i i i i i i i i i i i i i i i i i	Geo. Stimson		
Steering vessels	John B. Holmes	Boston, Mass	April 11, 1834
Steering vessels, apparatus for	Benjamin F. Adams	Boston, Mass	Nov. 19, 1833
meeting wheel	Rowse	Bath, Me	July 10, 1826
Steering wheel	John M. Brown	Boston, Mass	Mar. 24, 1826
Steering wheel, for ships, &c	Andrew Morse	Boston, Mass	
Steering wheel for vessels	Phillip T. Share	Balumore, Md	
Steering wheels for vessels, im-			2.0.0
provement in.	J. J. Springer	Cape May, N. J	July 20, 1846
Table, sea	Wm. H. Richardson.	Baltimore, Md	
		Wilkesbarre, Pa	
Table, for the use of ships			
Thimbles, ships	Barnabas Thatcher	Yarmouth, Mass	
Thimbles, ships	Prentiss White	Yarmouth, Mass	July 2, 1836
Fides and currents, representation		Fort Gaines, Ga	Sept. 1, 1843
of	Denjamm r. Wars.	Tort Games, Games	осри 1, 1010
ways	James D. Woodside.	Washington, D. C	Mar. 17, 1829
Tides, gauge	James D. Woodside.	Washington, D. C.	April 14, 1824
Timber, bending, for boat building		Piqua, Ohio	May 27, 1820
Timber, bending-See Class 14.	00000		,
Timber, hewing, dubbing, and		i i	
dressing for ships		Washington, D. C.	April 97, 1831
Towboat, steam, and warping		,, asim, E	11pm 21, 1002
windlass	John L. Sullivan	Boston, Mass	April 2, 1814
Towhoat, steam	John L. Sullivan	Boston, Mass	
Fowing boats on canals, apparatus		Dobbon, Idabition	200 1, 1010
for	Peter Cooper	New York	Ton 94 1890
Towing boats on canals	Samuel Howard		
		Savannah, Ga	May 10 1000
Fowing boats on canals	Edward S. Townsend	Palmyra, N. Y	
Fow line, apparatus for holding	Robert Davis	Philadelphia, Pa	
Fow line, for boats	Aaron Bull	Carlisle, Pa	Jan. 30, 1830
Fow line, canal boats, of bullocks			T 1 10 1000
_ hides	James Sanford	Weston, Ct	Feb. 16, 1890
Free nails, for ships	Thomas Rowell	Hartford, Vt	Dec. 13, 1891
Tree nails, turning	J. E. Andrews		Aug. 30, 1838
Truss, cast iron	Enos Baldwin	New York	July 31, 1822
Truss, for hanging ships' yards	Preserved Fish		Sept. 24, 1824
Truss, lever, and sling	Samuel Wells	Boston Mass	July 24, 1822
Fruss, lever, and sling, for yards		!	• .
of vessels		Boston Mass	Dec. 23, 1824
Truss, for vessels		Belfast, Me	Jan. 30, 1832
Ventilating bellows, for ships, &c	Russell Barron	Philadelphia, Pa	Feb. 20, 1835
Ventilating machine See Class 11		,,	
Ventilating pump.—See Pump, Class	11.		
Ventilating ships, &c., by machin-	[
_ery	Russel Jarvis	Boston, Mass	Mar. 5, 1634
Ventilating vessels	Charles W. Skinner.	Norfolk, Va	Aug. 23, 1892
Ventilating vessels, and purifying		, , , , , ,	
air in them	Jesse Remington	Baltimore, Md	Mar. 1, 1832
Ventilators, nautical	Benjamin Wynkoop.	Philadelphia, Pa	June 19, 1795
	benjamin wynkoop.	I imadeipina, I a	Juno 15, 1100
essels, ascertaining centre of gra-	John Hobdess	Portsmonth We	Sent 14 1943
Vity	John Hobday	Portsmouth, Va	Sept. 14, 1843
Vessels, attaching buoys to raise	John Brown	Stonnington Co	Sent 92 1236
them	John Brown	Stonnington, Ct	Sept. 28, 1839
Vessels, attaching keels	Thomas F. Griffith	New Market, Md	April 26, 1845
Vessels, connecting tiller with the	Llanus Water	Dath Ma	Man 00 19/2
rudder head of	menry waterman	Dam, Me	TATEN 10' TOTAL

INVENTIONS OR DISCOVERIES.	PATENTRES.	RESIDENCE.	WHEN ISSUED.
Vessels, berth of, constructing	Harmon King	New York	Sept. 4, 1841
Vessels, boats, &c., constructing.		New York	
Vessels, constructing and propel-			,
ling	George Burnham	Philadelphia, Pa	Dec. 10, 1840
Vessels, heaving down	Stephen Colver		Dec. 14, 1798
Vessels, heaving down	John Crowninshield	Salem, Mass	
Vessels, lining, constructed of		Carolii, Massouri I I I I	20, 20,
sheet iron*	and John Potter	Pittsburg, Pa	May 7, 1842
Vessels, projecting metallic sheath-		110mbmb, 1 m 11111	1.20, 1, 2020
ing for	E. M. Robinson	New Bedford, Mass	Aug. 8 1837
Vessels, protecting against snags.	William Johnson		
Vessels, protecting against snags.	George F. Bigelow	Nawfalk Va	Fab 19 1040
Vessels, ships, &c., constructing.	Thomas Poll	Dolmort N V	Oct 90 1940
Vessels, stranded, hauling off	Thomas Bell	Mana Wank	Non 11 1007
Vessels, used as life preservers	John Mackintosh		
Vessels' yards, trusses for	John W. Wilson	Philadelphia, Pa	Dec. 20, 1845
Windlass See Class 12.			l
Windlass, ship's	William Carr	Bath, Me	Feb. 7, 1842
Windlass and capstan, method of			
working ships	William Holmes	Baltimore, Md	Mar, 23, 1842
Yards of vessels, slinging	Isaac Carver, jr	Prospect, Me	Dec. 11, 1827
Yards of vessels, suspending	Samuel A. Wells	Boston, Mass	Jan. 23, 1828

^{*} Reissued Oct. 14, 1842. Additional improvement same date.

CLASS No. VIII.

MATHEMATICAL,

Philosophical, and Optical Instruments, including Clocks, Chronometers, &c.

LIST OF PATENTS.

CLASS VIII.—MATHEMATICAL, Philosophical, and Optical Instruments, including Clocks, Chronometers, &c.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Acoustic drum	Samuel Sawyer	Boston, Mass	Oct. 24, 1834
Adding machine	Daniel Kohler	Sunbury, Pa	June 6, 1834
Alarm bell	Benj. E. Freymuth	Philadelphia, Pa	Dec. 22, 1814
Alarm bell, for time pieces	Robert Wilson	Williamsport, Pa	July 3, 1832
Alarm bell, self-acting clock		Johnston, R. I	June 20, 1834
Alarm to clocks and other time		Statesville, R. I	Sept. 10, 1840
Alarm, fire	Rufus Porter		Dec. 28, 1840
Alarm, fire*	Josiah Brown, ass'nee		l _
	of Theo'lus Goodwin	Exeter, N. H	Jan. 30, 1841
Alarm lock.—See Class 2, Locks. Alarm, to protect houses from			
thieves	Lester E. Denison	Saybrook, Conn	Oct. 22, 1849
Anglet	Benjamin Dearborn	Boston, Mass	April 29, 1808
Area of irregular figures, mode of		,	
finding	Thomas Wood	Smithfield, Ohio	July 22, 1839
Arithmetic, art of teaching	Oliver H. Shaw	Richmond, Va	April 16, 1831
Astronomical machine	James Swaim	Philadelphia, Pa	June 29, 1833
Barometer	William R. Hopkins.	Geneva, N. Y	Jan. 25, 1841
Calculating machine	George W. Edelman .	Philadelphia, Pa	Dec. 22, 1846
Chronometer escapements	Oramel W. Waste	Pittsford, N. Y	Sept. 24, 1844
Chronometer	Samuel S. Edmonston.	New York	April 3, 1819
Circumferenter	James McCann	New Market, Va	Dec. 20, 1837
Clocks	Eli Terry	Connecticut	Nov. 17, 1797
Clocks	Lemuel Curtis	Concord, Mass	July 12, 1816
Clocks	Simon Willard	Boston, Mass	Dec. 8, 1819
Clocks	James Henry Joshua Burritt & Wm.	Maysville, Ky	Sept. 13, 1829
Clocks	P. Burdick	Ithaca, N. Y	Oct. 25, 1821
Clocks	Harrison G. Dyer	New York	Dec. 6, 1827
Clocks	Aaron D. Crane	Caldwell, N. J	Mar. 18, 1829
Clocks	James Bogardus	Henrietta, N. Y	Mar. 2, 1830
Clocks	Abijah Gould	Henrietta, N. Y	Oct. 1, 1830
Clocks	Jacob D. Custer	Norristown, Pa	Nov. 20, 1830
Clocks	Rufus Porter	Billerica, Mass	June 22, 1832
Clocks	James S. Seger	New York	Nov. 27, 1832
Clocks	Samuel Blydenburg &		•
	William Beebe	New York	April 26, 1833
Clocks	James S. Seger	New York	May 22, 1833
Clocks	Joseph Ives	Bristol, Conn	July 1, 1836
Clockst	Aaron D. Crane	Newark, N. J	Feb. 10, 1841
Clocks	Charles Kirk	Bristol, Conn	Aug. 26, 1843
Clocks	Eli Terry	Plymouth, Conn	Aug. 9, 1845
Clocks, astronomical	Thomas Newell	Sheffield, Mass	July 7, 1809
Clocks, astronomical	Henry Miller	E. Hanover, Pa	May 5, 1825
Clocks, balance pendulum	James Goodwin and	Politimore Md	Tan 00 1000
Clocks belongs pendulum	Richard Gaines Samuel Goodwin	Baltimore, Md	Jan. 22, 1806
Clocks, balance pendulum Clock cases	John Ives	Baltimore, Md Bristol, Conn	July 7, 1809 Mar 91 1899
Clock frame, design for	N. Batchelor, assignee	New York, N. Y	Mar. 21, 1822
Clocks, improvement in	of H. Biggins Thomas A. Davies		Ang 19 1946
•		•	
* Antodated July 30, 18	3 V.	† Antodated Dec. 22, 16	₩.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN MOTED.
Clocks, improvement in	John M. Schrock and		
•	John G. Fischer	Millersburg, Ohio	Oct. 3, 1846
Clocks, improvement in		New York, N. Y	Jan. 15, 1846
Clock machinery	William Dean	Pleasant Valley, N. Y	Dec. 21, 1821
Clock pendulums	Frederick Kesselmeir.	Wooster, Ohio	
Clocks, propelling power	Joseph Ives	Bristol, Conn	
Clock, self-moving, for winding up	Richard Ward	Waterbury, Conn	Nov. 5, 1829
Clocks, self-winding	Evans Casselberry	St. Louis, Mo Pennsylvania	Aug. 2, 1842
Clocks, striking part		Pennsylvania	Oct. 12, 1809
Clocks, striking part		Ithaca, N. Y	M 10 1032
Clocks, striking part	James Bogardus	New York Hartford co., Conn.	Annil 10, 1032
Clocks, striking part	Noble Towns	Haruord co., Conn.	Tuna 97 1930
Clocks, striking part of		Bristol, Conn	June 21, 1035
Clocks, thirty hours, of wooden	Inma Warrian	Litchfield, Conn	Aug 99 1914
Clocks, time part of wooden	Lines Tarrison	Boston, Mass	May 12 1024
Clocks and time pieces		Meriden, Conn	
Clocks and time pieces*		Albany, N. Y	Mar. 22, 1835
Clocks and time pieces, propelling,		Planefold Mains	Sent 19 1935
by atmospheric air	In Inc.	Bloomfield, Maine Bristol, Conn	June 24, 1809
Clocks, time, and striking part		Owego, N. Y	Tule 24, 1005
Clock, turret or town		Chelese V	Tune 12 1821
	Orsamus R. Fyler	Chelsea, Vt Plymouth, Conn	May 96 1999
Clocks, wooden wheel Clocks, wooden wheel, thirty hours	Eli Terry	Plymouth, Conn	May 18 1895
Clocks, wooden wheel, thirty hours		Plymouth, Conn	Sent 9 1895
Clocks, wooden wheel, thirty hours		Plymouth, Conn	
Clocks, wooden wheel, thirty hours		Plymouth, Conn	Mer 4 1896
Clocks, wooden wheel, thirty hours		Plymouth, Conn	
Coin, apparatus for counting	Philos B. Tyler, ex'r	Trymoun, committee	uary 0, 2000
com, apparatus for comming of the	of Rufus Tyler, dec'd		Oct. 11, 1841
Compass, and magnetic needle	Julius Hanks	Troy, N. Y	
Compass, mariner's	William Russell	New Bedford, Mass.	Dec. 1, 1809
Compass, mariner's	Jonathan Ball	Buffalo, N. Y	Mar. 6, 1835
Compass, mariner's, fixing	Lemuel Langley	Gosport, Va	
Compass needle, marine, and sur-		• ,	
veying	Moses Smith	New York	June 15, 1830
Compass, quadrant, and protractor		Standardsville, Va	Dec. 6. 1836
Compass, surveying	William J. Young	Philadelphia, Pa	Jan. 17, 1832
Compass, surveying	Nathan Bassett	Wilmington, Del	June 28, 1836
Compass, surveying	William C. Poole	Lancaster, Pa	July 31, 1849
Compass, surveying, or circumfe-			-
renter	Samuel R. Miller	Front Royal, Va	Oct. 22, 1835
Compass, surveying, universal	Samuel Dew	Romney, Va	April 13, 1822
Distance, measuring		Billerica, Mass	June 11, 1836
Dividing machine		Philadelphia, Pa	Oct. 9, 1828
Draughting instruments	James C. Moore	Belmont co., Ohio Albany, N. Y	Dec. 30, 1833
Electrical apparatus	Thomas Brown	Albany, N. Y	Dec: 20, 1815
Electrical conductor	Rene L'Angais	Paincourtville, La	Oct. 3, 1846
Electric diaphragms, application of,			
to measure pressure of liquids.		London, Eng	Aug. 20, 1846
Electrifying machine	Elijah Cole, by Ezekiel	Distance Obia	T1 00 1049
131	Cole, administrator	Richmond, Ohio	July 22, 1843
Electro-magnets, changing the poles		Tuscaloosa, Ala	June 21, 1030
Electro-magnetism	Thomas Davenport	Brandon, Vt	C 10 1099
Electro-magnetism		New York	Aug 95 1944
		New York	
Electro-magnetic telegraph		New York, N. Y	whin 11, 1040
Electro-magnetic telegraph, mode		Ithere N V	Dec 90 1945
of operating	Ezra Cornell	Ithaca, N. Y	
Electrophorus	David F. Lanny	Philadelphia, Pa	
Engine, for dividing scales			Sen 6 1829
Escapement, for clocks		Shelhy on Ky	Sep. 6, 1833 Dec. 30 1835
Escapement, for clocks Escapement of watches			Fab. 21 1849
•	•	• -	
* Reissued Feb. 25, 1836. † H	eissued Jan. 11, 1834.	‡ Patented in England A	ipni 97, 1844.

inventions or discoveries.	PATENTEES.	RESIDENCE.	WHEN IMPURD.
Extension tables, slides of	Charles F. Hobe	New York	June 22, 1841
Galvanic batteries	John Plumbe, jr	Boston, Mass	Mar. 4, 1843
Galvanic battery, &c	Patrick Coad	Philadelphia, Pa	Mar. 28, 1842
Genealogy, chronology represent-		z zamenpara, z u	112011 20, 1012
ed by lines	Hy. Bostwick	New York	Aug. 2, 1826
Geography and astronomy, appa-	•		. ,
ratus for teaching	Robert Piggott	Elkridge Land'g, Md.	Jan. 17, 1842
Glass lens, improvement in	Henry M. Paine	N. Oxford, Mass	Oct. 3, 1846
Glasses, for spectacles	Isaac Schnaltman	N.L.Philadelphia,Pa	Feb. 20, 1836
Globes	Gilbert Vale	New York, N. Y	Oct. 28, 1843
Globes, artificial	William B. Annin	Boston, Mass	May 4, 1826
Globes, mounting	Silas Cornell	Rochester, N. Y	July 5, 1846
Globe stand, design for	Joelin Gilman	Boston, Mass	May 7, 1845
Goggles for strabismus.—See Class		Glanfall N V	May 6 1944
Interest, machine for calculating Interest tables, geometrical	Jehu Hatfield Gershom Cobb	Glenfall, N. Y Boston, Mass	May 6, 1844 Sept. 7, 1808
Interest tables, geometrical	Gershom Cobb	Boston, Mass	April 24, 1809
Interest tables, circular	Joseph Jelleff	Butternuts, N. Y	Sept. 8, 1810
Interest tables, improvement on	Coopii Cononi Cotto	Butternum, 1tt 1	20pt. 0, 1010
_ Jelleff 's	Gilbert D. Lowe	Hampfield, Pa	Aug. 12, 1815
Keys, watch	Josiah S. Davis	Providence, R. I	April 3, 1827
Level, horizontal, inclined, and			
plumb	A. Girard	Mobile, Ala	July 2, 1846
Level and plumb	Joseph E. Eldred	Rochester, N. Y	Aug. 25, 1831
Level, pendulum	Asahel Munger	Oberlin, Ohio	Aug. 17, 1835
Lightning conductors	Joseph S. Barber	Gloucester	Mar. 5, 1839
Lightning conductors	Justin E. Strong	Boston, Mass	April 19, 1841
Lightning conductors	William A. Orcutt	Boston, Mass	Oct. 9, 1841
Lightning, protecting vessels from	Elisha L. Keen	New York	June 27, 1832
Lightning rods	Elisha Calendar	Boston, Mass	Oct. 3, 1808
Lightning rods, securing	John Brown & George	D	G . 4 04 100F
Tonginator	W. Robinson	Providence, R. I	Sept. 24, 1825
Longitude, finding	Abel Bayrd	S. Reading, Pa	July 16, 1828 Sept. 13, 1820
Lotteries	J. I. Cohen	Maysville, Ky Baltimore, Md	Mar. 3, 1825
Lotteries.	William Seger	Bergen, N. J	May 25, 1825
Lotteries	J. I. Cohen	Baltimore, Md	Aug. 28, 1828
Lotteries	Jos. Vanneni	Washington, D. C	Dec. 4, 1815
Lotteries, by arithmetical chances		Union College, N.Y.	Sept. 9, 1825
Lotteries, constructing & drawing	Moses Davis	Cumberland, Md	May 9, 1825
Lotteries, drawing	J.Howard and A.Hay-		
	_wood	Providence, R. I	Nov. 8, 1825
Lotteries, drawing	Francis W. Dana	Boston, Mass	Dec. 28, 1825
Lotteries, drawing	William C. Conine	Baltimore, Md	Nov. 14, 1826
Lotteries, drawing	John C. Rives	Washington, D. C.	Dec. 22, 1826
Lotteries, drawing	William E. Spalding .	Brooklyn, Conn	Feb. 15, 1828
Lotteries, drawing	D. Malcolm	New Orleans, La	July 30, 1829
Lotteries, instituting and drawing.	James K. Casey	New York	Mar. 28, 1831 Oct. 18, 1823
Lotteries, schemes	Jos. Vanneni John W. Togno	Philadelphia, Pa	May 16, 1823
Lotteries, schemes	Edward Grattan	Philadelphia, Pa Providence, R. I	May 16, 1826
Lottery schemes	Joseph Vanneni	New York	July 18, 1840
Magnetic cylinder	Samuel Browning	Franconia, N. H	July 18, 1840 Oct. 13, 1810
Magnetic cylinder	Samuel Browning.	Franconia, N. H	Nov. 25, 1814
Magnetic fire alarm	Addison Smith	Perrysburg. Ohio	July 24, 1846
Magnetic letter printing telegraph.	Royal E. House	New York, N. Y	April 18, 1846
Mapping, land instrument	James Deneale	Dumfries, Va	Aug. 3, 1820
Maps, charts, &c., apparatus for		,	
exhibition	Nathaniel K. Lombard	Boston, Mass	Oct. 27, 1836
Maps, charts, &c., instruments for			
delineating	Amity Bailey	Newberry, S. C	Sept. 4, 1840
Measuring heights and distances .	Benjamin Wilmer		Aug. 20, 1819
Measuring rod, for packages	Daniel Stansbury	Laurel Hill	Oct. 26, 1818
Odometer	James Clarke	rownattan co., Va	1404. 30, 1818

ENVENTIONS OR DISCOVERIES.	PATRITEUS.	RESIDENCE.	when issued.
Odometer	William A. Turner	Plymouth, N. C	Nov. 19, 163
Odometer		Waterbury, Ct	Sept. 14, 1836
Pedrometer, sea	Bennett Lies	New York	June 20, 1815
Pendulum, balance	Hiram Twiss	Meriden, Ct	May 13, 1834
Pendulum, scale	Moses L. Morse	Cambridge, Mass	Feb. 21, 1810
Pendulum, for clocks	Robert Leslie	Philadelphia, Pa	Jan. 30, 1793
Pendulum, double	Robert Leslie	Philadelphia, Pa	Jan. 30, 1793
Pendulum, double	Robert Leslie	Philadelphia, Pa	Jan. 30, 1791
Pendulum, machine	Charles S. Allen	Newark, N.J	Oct. 13, 1815
Pentagraph and parallel ruler	John J. Hawkins	New Jersey	May 17, 1803
Perambulator		West Point, Mass	Oct. 27, 1829
Pinions, for clocks		Bristol, Conn	Feb. 24, 1819
Pinions, for clocks	Pharris Bronson and Joel Curtis.	Waterbury, Conn. & Cairo, N. Y	Aug. 22, 1814
Pinions, rolling, and pinion wheels			
for clocks	Joseph Ives	Hartford co., Conn	
Planetarium, heliogeastrum	Theo. Newell	Poultney, Vt Cairo, N. Y	April 12, 1820
Plates, mode of boring, for clocks, Plumb, balance, and pendulum		Cairo, N. I	Aug. 22, 1314
_ level	Lemuel Lewis	Newfield, N. Y	
Protracting table		Washington, D. C	Sept. 7, 1838
Protractor, facilitating		Seneca co., Ohio	Aug. 1, 1833
Protractor, perspective		Philadelphia, Pa	Mar. 14, 1815
Protractor, rectangular	Nathaniel Goodwin	Hartford, Ct	Dec. 24, 1823
Protractor, and tablet, geometrical		Easton, Mass	
Protractor, universal		Philadelphia, Pa	Jan. 19, 1819
Quadrant, improvement on Spear's	Francis G. Clarke	Portland, Maine	Feb. 21, 1839
Quadrant	Josiah Arnold	Caledonia, Vt	Tob 04 1929
Quadrant, artificial horizon for Quadrant, astronomical		Mobile, Ala	Sep. 3, 1802
Quadrant, gunners		Massachusetts Concord, Mass	May 5 1807
Quadrant, horizontal wheels	R F Adams	Boston, Mass	Nov. 19, 1833
Quadrant, and sextant		Portland, Maine	Mar. 19, 1830
Quadrant, trigonometrical	James Templeman	South Carolina	Aug. 17, 1802
Rules, sliding		New York city	Jan. 10, 1843
Rules or measures for boards,			
leather, &c		Piqua, Ohio	May 17, 1844
Scale, for measuring		Bennington, Vt	May 29, 1822
Sector, sliding		Boston, Mass	Dec. 4, 1820
Signals, electro-magnetism	Samuel F. B. Morse	New York	June 20, 1840
Signals, railroad alarm	Samuel Nicolson	Suffolk, Mass	June 26, 1841
Spectacles, constructing	Joseph Richards	New York	Dec. 16, 1833
Spectacles, construction of	Christopher H. Smith.	Niagara, N. Y	Nov. 12, 1841
Spectacles, forming the joint, &c.	Thomas Eltonhead	Baltimore, Md	
Spectacles, preparing the glasses, &c		New York	April 20, 1839
Spectacles, revolving glasses, &c.	Christopher H. Smith		
Spectacles, side glasses	Daniel Thaxter	Hingham, Mass	June 18, 1839
Speciacles, and single eye glasses.	S. Newton	Washington, D. C.	Dec. 22, 1827
Spectacles, spiral spring Sphereometer, for ascertaining rela-	Samuel Babcock	Middletown, Conn	April 3, 1829
tive bearings		Southington, Conn	Jan. 9, 1838
Spring, for clocks	James S. Ives	Bristol, Conn	May 23, 1836
Spring, for clocks	Joseph S. Ives	New York city	May 4, 1838
Spring, combined spiral for clocks	Silas B. Terry	Plymouth, Conn	Nov. 3, 1830
Sun dials	James P. Gardner	Columbia, Pa	Dec. 5, 1845
Sun dieds of cast iron	Heman McCluer	Hamburg, N. Y	Sept. 17, 1834
Surveying instruments	George D. Varney	Newbury, Mass	June 24, 1843
Surveying instruments	Benjamin H. Benton .	Middleburg, Va	Dec. 12, 1843
Surveys, instruments for plotting.	William J. Card	Lancaster, Pa	April 16, 1843
Tally, machine for keeping	William A. Tanner	Plymouth, N. C	July 12, 1839
Telegraphs	Samuel Frew	Elizabeth, Pa	July 2, 1843
Telegraph.—See Class 9.	Charles Wilson		
Telegraph, electro-magnetic*	Charles Wheatstone &	Chant Buit-in	Tune 10 1944
		Great Britain	June 10, 10-m
•	Parlick retent detect Tune 18	1000	

^{*} English patent dated June 18, 1837.



Telescope, sub-marine				
Theodolite, or compass	INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Theodolite				
Time keeper, balance for			Newry, Maine	Feb. 11, 1835
Time keeper, marine		Samuel Stone	Long Green, Bait.Md	Uune 6, 1835
Time piece		J. Blues & F. Creighton	New York	Aug. 4, 1845
Time piece			Charleston, S. C	Jan. 15, 1810
Time piece			Massachusetts	Feb. 8, 1802
Time piece, silent moving Simeon Joceline Connecticut Mar. 8, 1800 Trigonometer William Chamberlain. Uilliam Belles Griswold, Conn. July 17, 1824 True meridian, finding William A. Burt Mount Vernon, Mic. Jacob D. Custer Norristown, Pa Feb. 4, 1843 Watches, duplex escapement in Charles Edw. Jacot des Combes Baltimore, Md April 39, 1840 Watches, casting, for clocks Lemuel J. Kilborn Wheels, casting, for clocks John P. Bakewell John P. Bakewell Pennsylvania Oct. 13, 1809 Wheels, teeth, and pinions John P. Bakewell John				Mar. 21, 1803
Trigonometer	Time piece		Poughkeepsie, N.Y.	Feb. 20, 1836
Trigonometer		Simeon Joceline	Connecticut	Mar. 8, 1800
Trigonometer	Trigonometer	William Chamberlain.		June 28, 1809
True meridian, finding	Trigonometer	William Belles	Griswold, Conn	July 17, 1824
Watches, duplex escapement in. Watches, dec., improvement in the construction of the escapement wheel and escapements of Wheels, casting, for clocks Wheels, glass, for clocks Wheels, teeth, and pinions Wheels, for wooden clocks Wheels, for wooden clocks Agacob D. Custer Baltimore, Md Norristown, Pa Baltimore, Md New York, N. Y Pennsylvania Oct. 13, 1809 Pittsburgh, Pa Cairo, N. Y Aug. 22, 1814 Litchfield, Conn Aug. 22, 1814	True meridian, finding	William A. Burt	Mount Vernon, Mic.	Feb. 25, 1836
Watches, duplex escapement in Watches, &c., improvement in the construction of the escapement wheel and escapements of Wheels, casting, for clocks Wheels, glass, for clocks Wheels, teeth, and pinions Wheels, for wooden clocks Wheels, for wooden clocks April 39, 1840 April 39, 1840 New York, N. Y John P. Bakewell Pittsburgh, Pa Oct. 13, 1809 Oct. 1, 1830 Bradley Cairo, N. Y Aug. 22, 1814 Litchfield, Conn Aug. 22, 1814	Watches	Jacob D. Custer	Norristown, Pa	Feb. 4, 1843
Watches, &c., improvement in the construction of the escapement wheel and escapements of Wheels, casting, for clocks Wheels, glass, for clocks Wheels, teeth, and pinions Wheels, for wooden clocks Wheels, for wooden clocks Litchfield, Conn Baltimore, Md April 39, 1840 New York, N. Y July 28, 1846 Pennsylvania Oct. 13, 1809 Oct. 1, 1830 Bradley Cairo, N. Y Aug. 22, 1814 Litchfield, Conn Aug. 22, 1814	Watches, duplex escapement in	Charles Edw.Jacot des		i .
Watches, &c., improvement in the construction of the escapement wheel and escapements of Charles Edward Jacot Wheels, casting, for clocks Leasuel J. Kilborn Pennsylvania Oct. 13, 1809 Wheels, teeth, and pinions Joel Curtis and Dimon Bradley Cairo, N. Y Aug. 22, 1814 Wheels, for wooden clocks Asa Hopkins Litchfield, Conn Aug. 22, 1814	, • •	Combes	Baltimore, Md	April 39, 1840
construction of the escapement wheel and escapements of Charles Edward Jacot Wheels, casting, for clocks Leasuel J. Kilborn Pennsylvania Oct. 13, 1809 Oct. 1, 1830 Wheels, teeth, and pinions Joel Curtis and Dimon Bradley Cairo, N. Y Aug. 22, 1814 Wheels, for wooden clocks Asa Hopkins Litchfield, Conn Aug. 22, 1814	Watches, &c., improvement in the		Ť	,
wheel and escapements of Charles Edward Jacot Wheels, casting, for clocks Leasuel J. Kilborn Pennsylvania Oct. 13, 1809 Wheels, for clocks John P. Bakewell Vheels, teeth, and pinions Joel Curtis and Dimon Bradley Cairo, N. Y Aug. 22, 1814 Wheels, for wooden clocks Asa Hopkins Litchfield, Conn Aug. 22, 1814	construction of the escapement	:		
Wheels, casting, for clocks Jemuel J. Kilborn Pennsylvania Oct. 13, 1809 Wheels, glass, for clocks John P. Bakewell Pittsburgh, Pa Oct. 1, 1830 Wheels, teeth, and pinions Joel Curtis and Dimon Bradley Cairo, N. Y Aug. 22, 1814 Wheels, for wooden clocks Asa Hopkins Litchfield, Conn Aug. 22, 1814		Charles Edward Jacot	New York, N. Y	July 28, 1846
Wheels, glass, for clocks John P. Bakewell Pittsburgh, Pa Oct. 1, 1830 Wheels, teeth, and pinions Joel Curtis and Dimon Bradley Cairo, N. Y Aug. 22, 1814 Wheels, for wooden clocks Asa Hopkins Litchfield, Conn Aug. 22, 1814		Lemuel J. Kilborn	Pennsylvania	Oct. 13, 1809
Wheels, teeth, and pinions Joel Curtis and Dimon Bradley		John P. Bakewell	Pittsburgh, Pa	Oct. 1, 1830
Wheels, for wooden clocks Bradley Cairo, N. Y Aug. 22, 1814 Litchfield, Conn Aug. 22, 1814		Joel Curtis and Dimon		-, 2000
Wheels, for wooden clocks Asa Hopkins Litchfield, Conn Aug. 22, 1814	,,			Aug. 22, 1814
	Wheels, for wooden clocks	Asa Honkins	Litchfield, Conn	Aug. 22, 1814
			Waterbury, Conn	Ang. 22 1814
Writing plates, geometrical Samuel Ellis New Bedford, Mass. Nov. 29, 1809		Samuel Ellis	New Bedford, Mass.	Nov. 29, 1909

CLASS No. IX.

CIVIL ENGINEERING,

And Architecture, comprising works on Rail and Common Roads, Bridges, Canals, Wharves, Docks, Rivers, Wiers, Dams, and other Internal Improvements, Buildings, Roofs, &c.

LIST OF PATENTS.

CLASS IX.—CIVIL ENGINEERING and Architecture, comprising works on Rail and Common Roads, Bridges, Canals, Wharves, Docks, Rivers, Wiers, Dams, and other Internal Improvements, Buildings, Roofs, &c.

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INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Aqueducts, of water-proof lime*	John M. Benham	Bridgewater, N. Y.	Aug. 29, 1827
Auger, mining	Joshua Hobart	Dubuque, Iowa	May 23, 1846
Bars, from harbors, rivers, &c.,		Zubuquo, zowanii.	,,
removing	James R. Putnam	New Orleans, La	May 6, 1841
Blasting rocks	Benoni Kinyon	Hillsdale, N. Y	Mar. 15, 1819
Blasting rocks	Moses Shaw	New York	June 3, 1830
Blasting rocks, cartridges for	John B. Ives	Lebanen, Pa	July 17, 1826
Blasting rocks, fuse, safety for	William Lewis	New York city	Oct. 26, 1838
Blinds, Venitian	John Hampson	New Orleans, La	Aug. 21, 1841
Blinds, Venitian, raising and low-	Take Miller	M W1-	0 1040
Plinds window	John Wier	New York	Oct. 8, 1840
Blinds, window	Alonzo S. Grenville & Thomas John Lewis		Aug. 9, 1839
Blinds, window, opening & closing		Mass	Sept. 4, 1840
Blowing rocks	John M. Syme	LAUPERIOR, IV. II	Dec. 12, 1816
Boring earth, auger for	George Page	Baltimore, Md	May 3, 1839
Boring earth	John R. Failing	Canajoharie, N. Y.	June 13, 1827
Boring earth	John R. Failing	Canajoharie, N. Y	Aug. 25, 1928
Boring rocks	E. Jones & P. White.	Brookfield, Mass	Dec. 21, 1809
Boring rocks	John Sanford	Sharon, Ct	Dec. 10, 1812
Boring rocks	Ephraim Gilbert	Rochester, N. Y	July 22, 1823
Boring recks	Israel Overall	Liberty, Tenn	Mar. 14, 1 8 28
Boring rocks	John W. Post & Calvin		TLL 0 1000
Daving washes	Post	Washington, D. C.	Feb. 2, 1830
Boring rocks	Israel Overall	Liberty, Tenn	April 23, 1830 Dec. 2, 1835
Boring rocks	Aaron W. Vancleve	Stonington, Ct	Aug. 29, 1838
Boring rocks, and blasting	George C. Doherty John W. Post	Cumberland co., Ky Washington, D. C	Oct. 4, 1830
Boring rocks under water	John B. Aveilhé		Aug. 24, 1801
Boring for water	Valentine Cook		Nov. 1, 1803
Boring for water	Levi Disbrow	N. Brunswick, N. J.	Mar. 24, 1825
Boring for water	Wm. Morris & Jabez	,	·
_	Spinks	Kenhawa, Va	Oot. 22, 1830
Boring for water	Levi Disbrow	New York	Nov. 1, 1830.
Breaking stone, & thushing grain	Wm. H. Bell & Tim.	Fort'ss Monroe, Va.,	
Deschious description in	P. Andrews.	& Wash'ton, D. C.	July 9, 1889
Breaking stone for turnpikes	Benj. F. Lodge and E.		A
Dridene	T. Cox	Zanesville, Ohio	April 13, 1631 Jan. 21, 1797
Bridges	Charles W. Peale Charles Fowler	Pennsylvania	Feb. 24, 1797
Raidges	John Stickney	Pennsylvania Massachusetts	June 3, 1797
Bridges	Timothy Palmer	Massachusetts	Dec. 17, 1797
Bridges	Theodore Burg	Massachusetts	Feb. 14, 1806
Bridges	Thomas Pope	New York	April 18, 1897
Bridges	James Finley	Fayette co., Pa	June 17, 1998
Buidges	John Templemen	Georgetown, D. C	Mar. 6, 1810
Bridges	Lewis Wernwag	Pennsylvania	Mar. 28, 1612
Bridges	Benjamin Connor	Portemouth, N. H	April 93, 1012
Bridges	Theodore Burr	Burrhaven, Pa	April 3, 1817
Bridges	Naphtali Bishop	Barre, Vt	Jan. 11, 1819
Bridges	John Bragg	Montreal, Canada	Jan. 4, 1890
Mridges	Ithiel Town	Fayetteville, N. C.	Jan. 20, 1020

^{*} Retacati Oct. 1, 1680.

			
INVENTIONS OR DISCOVERIES.	Patentees.	residence.	WHEN ISSUED.
Bridges	Wm. Woodmansee	Kingston, Vt	Mar. 6, 1827
Bridges	Thomas P. Blakewell.	Pittsburg, Pa	May 15, 1827
Bridges	Lewis Wernway	Jefferson co., Va	Dec. 22, 1829
Bridges	Augustus Canfield	Patterson, N. J	June 29, 1833
Bridges	Ithiel Town	New York	April 3, 1835
Bridges	George Law	Easton, Pa	June 12, 1835
Bridges			Oct. 14, 1835
Bridges	Francis Good	New London, Pa	Nov. 4, 1837
Bridges	Nathan Rider	Worcester, Mass	Nov. 26, 1845
Bridges, and other architectural	Lowman Gay	Chili, N. Y	Nov. 4, 1846
work	Joseph J. Deyster	Philadelphia, Pa	Reb 93, 1816
Bridges, balance	Jonathan Jessup	Yorktown, Pa	July 1, 1811
Bridges, building.	Jonas Snyder	Union co., Pa	Feb. 3, 1834
Bridges, building	Albert Cottrell	Newport, R. I	Nov. 10, 1841
Bridges, chain, (imp't on Finley's)		Alleghany, Md	
Bridges, construction of	Henry Wilton	Wrightsville, Pa	June 24, 1839
Bridges, construction of	Earl Trumbull	Little Falls, N. Y	July 10, 1841
Bridges, draw	Garner Wilkinson	White Creek, N. Y.	May 5, 1827
Bridges, draw, rolling	Richard Crosbie	Newark, N. J	Feb. 17, 1812
Bridges, floating swing		Danube, N. Y	
Bridges, frame	George Tabb	Martinsburg, Va	
Bridges, frame	Stephen H. Long	Baltimore, Md	Mar. 6, 1830
Bridges, frame		Fort Jackson, La	Mar. 10, 1830
Bridges, frame			
Bridges, improvement in Bridges, increasing the effective		Henniker, N. H	Aug. 12, 1846
strength of beams	John R. Remington	Lowndes co., Ala	May 19, 1843
Bridges, lattice		York, Pa	Dec. 27, 1839
Bridge, manner of crossing rivers		- 51.11, 2 41.11.11.11.11	200. 21, 200
by means of a moving platform			
suspended to a	Harvey Leach	Philadelphia, Pa	Mar. 4, 1849
Bridges, spiral brace cylinder	Isaiah Rogers	New York	Nov. 10, 1841
Bridges, suspension	John A. Roebling	Pittsburg, Pa	Aug. 26, 1846
Bridges, swinging		Parma, N. Y	Nov. 9, 1838
Bridges, timber, improvement in			Jan. 15, 1840
Bridges, truss frames of			July 10, 1840
Bridges, truss frames of			Aug. 3, 1840
Bridges, truss frames of	Jehu Price & James T. Phillips.		Feb. 23, 1841
Bridges, truss frames of		Norwich, Ct)	
2114600) 4 400 114114 41111111	Caleb Pratt		April 4, 1844
Bridges, truss frames of	William Howe	Springfield, Mass	Aug. 28, 1846
Bridges, truss iron			April 24, 1841
Bridges, wooden		Springfield, Mass	April 26, 1845
Bridges, wooden, aqueduct for ca-			
nals			April 12, 1890
Bridges, wooden brace*			
Bridges, wooden frame suspension			
Buildings, constructing		New York	June 28, 1836 Oct. 10, 1828
Buildings, covering		. Colchester, Ct	Feb. 3, 1819
Buildings, securing against fire		. Morristown, Vt Batavia, N. Y	Nov. 22, 1832
Buildings for a school room	S. W. Taylor & I. W	Datavia, IV. IIIIII	21011
	Martin	Lowville, N. Y	April 16, 1825
Buildings, stores, &c	. Isaac mngnu	. Baltimore, Md	May 23, 1836
Caissons, constructing, for found	-	i	
ing piers of bridges	. George Daniels	. Philadelphia, Pa	Feb. 28, 1834
Canals, constructing, applying lo		1	1
comotive engines to boats, bar	-1		- 01 1004
ges, &c	. Charles Bonnycastle.	. Charlottesville, Pa	Jan. 21, 1834
Canals, locks	Josiah White	. Philadelphia, Pa	Uct. 19, 1019
Canals, locks	Desid Williams	Coboos N V	May 14 1836
Canals, lockst	"I Ta ald an inkinson	Joanoes, N. I	1 may 17, 1000
			_

^{*}Reissand July 90, 1841.



makrations or discoursible	PAT RYTER	r ialijaj ca.	Atim skills.
Ganals, locks, balance for	Josiah White	Philadelphia, Pa	May 17, 1986
Canals, locks, gate	William Martin	Hampton, Windham	سيشه دسي الاست
		co., Ct	Jan. 15, 1820
Canals, locks, gate	Daniel Rogers	Little Falls, N. Y	Jan. 4, 1828
Canals, locks, gate	David Wilkinson	Cahoes, N. Y	Aug. 17, 1835
Canals, locks, gate	Valentine Brown	Clifton Park, N. Y	May 14, 1830
Canals, locks, gate	Franklin Livingston	Waterford, N. Y	April 13, 1838
Canals, locks, gate for	Robert English Daniel Rogers	Lagro, la Little Falls, N. Y	July 1, 184 Mar. 17, 182
Canals, locks, gate, paddle for Canals, locks, gate, safety	Jacob Van Dorn	Glenn, N. Y	May 14, 182
Canals, lock gates, suspending,	Jacob Vall Doll	G. C.	11, 104
opening, and closing	Henry McCarty	Pittsburg, Pa	Mar. 16, 184
Canals, locks, indicator	Valentine Brown	Clifton Park, N. Y	May 14, 183
Canals, locks, preserving timber of	Simeon Guilford	Lebanon, Pa	July 10, 1820
Canals, locks, saving water in	Jonas P. Fairlamb		Nov. 27, 182
Canals, locks, saving water in	Jac. Dewees		Dec. 31, 183
Canal locks, sliding valves	William Lake	Richmond, Va	June 7, 183
Canal locks, sluice gate	Geo. W. Hildreth		Mar. 19, 1840
Canal locks, sluice gate*	George Heath		Dec. 14, 184
Canal locks, wicket gates for	William L. Potter	Clifford Park, N. Y.	Aug. 31, 183
Canals and mill dams, waste gate, opening and closing	Robert Robinson	Greece, N. Y	Dec. 14, 184
Canal and railroad combined	Samuel S. Walley	Charlestown, Pa	Dec. 11, 184
Canals, transportation on, and rail-		0.0000000000000000000000000000000000000	200. 11, 101
roads	John Elgar	Baltimore, Md	Nov. 7, 183
Cellars, vaults, &c	Ezra Ludlow	New York	Dec. 14, 182
Cellars, vaults, &c	Henry Wallack	New York	Oct. 24, 182
Chains and ropes, used on canals	John M. Palisse & S.		1
_ and railroads.	S. Durfee	Hudson, N. Y	Feb. 25, 183
Dams	John M. Syme	Richmond, Va	Feb. 22, 1830
Dams	Samuel J. Burr	Chambersburg, Pa	Feb. 28, 183
Dams, chutes for	Amos Addis	Washington t'p, Pa.	Oct. 4, 183
Dams, coffer	William Easby	Washington, D. C Charlestown, Pa	Nov. 19, 183
Dams, river, easy passage of fish.	S. S. Walley	Philadelphia, Pa	Sept. 15, 184 Oct. 10, 182
Dock, buoyant	Maximin Isnard	New York	June 22, 182
Dock, carrying and lifting trunk	James Barron	Norfolk, Va	Aug. 2, 182
Dock, dry	John Gardiner	Washington, D. C	Dec. 3, 180
Dock, dry	Ralph Bulkley		Aug. 28, 182
Dock, dry	Christian Bergh	New York	April 29, 182
Dock, dry	Levi H. Clark & Lewis		l
*	M. Wise		Nov. 22, 182
Dock, dry	Alonson Place		
Dock, dry	Elias Selden		
Dock, dry	David Brown		Feb. 11, 183
	J. Houston, A. Hinman & J. Ingraham		June 29 183
Dock, dry		Tioga. N. Y	Mar. 6, 184
Dock, dry	John S. Gilbert	New York	May 12, 184
Dock, dry, rotary	Joseph Webb	New York	May 3, 181
Dock, elevating	E. Buck, H. Crehore		
	R. Gerry, & A. Bayard		
Dock, floating, dry	William Rhodes		
Dock, floating, dry	Samuel Rose	New York	June 15, 181
Dock, floating, dry†	John Adamson	Boston, Mass	Dec. 13, 181
Dock, floating, dry			110V. 6, 181
Dock, floating, dry			
Dock, floating, dry		New York Kittery, Me	
Dock, floating, dry	Jas. H. Peck, William	in interior y, interior	11, 102
	Thomas, R. Walsh		}
	& J. D. Coulter, as	-1	1
	signees of J. Thomas	St. Louis, Mo	Mar. 26, 183
Dock, floating, dry	Jonathan Hawes	Cayuga co., N. Y	April 22, 183
	1841. † Renewed 14 year	,	

ENABRIZIONA OF DISCOAMPER.	PATHIFULIS.	rambites.	WHEN ISSUED.
			NT 14 1000
Pock, floating, dry	Rufus Porter	Billerica, Mass	Nov. 14, 1835
Jock, floating, dry	J. R. Campbell & J. S. Withington	Boston, Mass	Nov. 28, 1835
look fasting dev	James Barron	Philadelphia, Pa	July 17, 1837
Dock, floating, dry Dock, floating, dry	John Thomas	New York city	Dec. 20, 1837
Dock, floating, dry	Joseph T. Martin	New York	Mar. 19, 1840
Dock, floating, dry	John S. Gilbert	New York	Mar. 25, 1840
Oock, floating, dry	William Thomas	St. Louis, Mo	May 19, 1846
Oock, floating, dry	John S. Gilbert	New York	Sept. 19, 1840
Oock, floating, dry	John Thomas	New York	June 26, 1841
Oock, floating, dry	Dan. Dodge & Phineas		,
, 5, ,	Burgess	New York	Oct. 9, 1841
Oock, floating, dry	Hugh K. Wagner	St. Louis, Mo	Nov. 10, 1846
Oock, floating, dry	Selah Hill	Jersey City, N. J	Feb. 1, 1842
Oock, floating, dry	John S. Gilbert	New York, N. Y	July 28, 1842
lock, floating, dry, basin to be	R. Moody and Samuel		
used in connexion with a.	D. Dakin	New York	Sept. 17, 1844
Dock, floating, dry, method of	Rutherford Moody &		
working.	Samuel D. Dakin	New York, N. Y	Nov. 24, 1843
Oock, floating, graving	Thomas Cunningham.	Pittsburg, Pa	Oct. 1, 1830
Oock, hydraulic	Zebedee Ring	New York	Feb. 13, 1836
Oock, hydrostatic, suspension	Thomas Evans and J.		
	Parsons	New York	May 13, 1831
lock, projecting	Moses Rogers	New York	Jan. 7, 1817
lock, railway	John Thomas	New York	Mar. 24, 1826
Oock, screw	John C. Ely	New York	Jan. 28, 1829
ock, screw	Elisha Turner	Rochester, N. Y	Oct. 10, 1829
Oock, screw, floating	Stephen F. Stinchfield.	New Orleans, La	April 27, 1832
)oor s	Daniel Williams, jr	Colchester, N. Y	Oct. 11, 1828
Doors	Eastman R. Ball	Oswego, N. Y	April 5, 1832
Ooors, closing	Linus Barnwell	Berlin, Ct	Nov. 25, 1829
Doors, closing	Oliver Davidson	Ballstown Spa, N. Y	Mar. 30, 1835
Doors, drops	George Kilburn	Walpole, N. H	Dec. 31, 1838
Doors, fender	William Cole & John	Dandalah Masa	Man 07 1000
laare fandan	Johnson	Randolph, Mass	Mar. 27, 1829
Joors, fender	Samuel Durfee	Providence, R. I	Oct. 1, 1830
Doors and gates, closing, appara- tus for	Gardner Barton, jr	Waterford, N. Y	Sept. 13, 1843
Doors, hanging	Edward C. Tilson	Themaston, Me	Jan. 9, 1838
Doors, hanging	Wm. D. Beasom & E.	Indinasion, Mc	Jun. 3, 1000
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	G. Reed, ass'nees of		
	George W. Wilson.	New Hampshire	July 10, 1840
Doors, improvement in bottom			, 20, 2010
parts of, to keep wind and wa-			
ter out	Luther Gifford	Syracuse, N. Y	May 2, 1846
Doors, preventing tightness of	Daniel Frazier	New York	Dec. 12, 1825
Doors, sliding	William T. Forsyth	Philadelphia, Pa	Feb. 12, 1844
Doors, weather strips for	A. S. Pelton	Clinton, Ct	Dec. 16, 1845
Doors and windows, mode of hang-	1	·	•
ing	Aaron B. Carpenter	New York	Sept. 19, 1845
rag for removing stones from the			
bottom of lakes	Philander Lee	Lyme, N. Y	Oct. 31, 1839
Predging machine	Wm. P. Brayton and	•	•
	James Hamilton	New York, N. Y	Jan. 8, 1839
Predging machine	Oliver Allen	Norwich, Ct	May 8, 1849
redging machine		Washington, D. C	Aug. 25, 1840
Drilling rocks	Isaac M. Singer	Lockport, Ill	May 16, 1839
Drilling rocks	Simon Pettes	Schenectady, N. Y	July 3, 1840
Drilling or boring rock, drill for	Uriah Higgins	Boston, Mass	May 2, 1843
			T 10 1001
Orilling stone	Jona. Crane	Schenectady, N. Y	June 13, 1831
Orilling stone	Jona. Crane	Schenectady, N. Y Albany, N. Y	Nov. 10, 1831
Orilling stone Orilling stone Orilling stone	Jona. Crane	Albany, N. Y Reading, Ct	Nov. 10, 1831 Mar. 3, 1836
Orilling stone	Jona. Crane	Albany, N. Y Reading, Ct Lansing, N. Y	Nov. 10, 1831 Mar. 3, 1836 July 16, 1827

^{*}Patented to J. Peck et al., March 27, 1874

INVENTIONS OR DISCOVERIES.	Pat endera.	r ecidence.	w <i>ith Made</i> .
Sarth, raising	Cyrus Barnard	Lynn, Pa	July 14, 1496
Sarth, removing.	Jacob Welch	Boston, Mass	
	Ichabod L. Skinner &	Dosion, Mass	1111y 0, 1000
Earth, removing	Samuel F. Tooker	Hartford, Ct	Mar. 23, 1820
South removing	Orange H. Dibble	Niagara co., N. Y	Feb. 20, 1824
Earth, removing	Jeremiah Bailey	Philadelphia, Pa	Mar. 21, 1825
Earth, removing		Uamiahuma Da	
Sarth, removing	William H. Doll	Harrisburg, Pa	May 29, 1826
Earth, removing	Pierson Reading	Trenton, N. J	June 1, 1826
erth, removing	Shadrack Davis, jr	N. Dartmouth, Mass	
Earth, machine for removing	Jarvis Ring	Ogden, N. Y	July 1, 1840
Excavating canals	Ichabod L. Skinner	Hartford, Ct	May 30, 1820
Excavating canals	John Humes	Richmond, Va	Nov. 10, 1821
Excavating canals	Jeremiah Brainard	Rome, N. Y	Feb. 10, 1826
Excavating canals	Lot Forrester	Ridgefield, Ct	May 10, 1826
Excavating canals	George Hendricks	Urbanna, Ohio	Aug. 5, 1829
Excavating canals and ditches	William Graham	New Orleans, La	Sept. 5, 1831
Excavating, cutting trenches for			,
laying pipe	Ezra Cornell	Ithaca, N. Y	Feb. 28, 1844
Excavating ditches	Joseph Hanchett	Cold Water, Mich	Feb. 28, 1840
	George W. Cherry	Washington, D. C.	Mar. 26, 1841
Excavating ditches	George W. Cherry	washington, D. C.	1041 20, 1041
Excavating, ditching, and embank-	Homes Clemsland	Fort Worms In	Dec 21 1949
ing earth	Horace Cleveland	Fert Wayne, Ia	Dec. 31, 1842
Excavating, ditching, embanking,	C 11 77 79 11 11	G	M 00 1040
and draining prairie lands	Cromwell K. Bartlett.	Genesee, Ill	Mar. 23, 1842
Excavating, ditching, and embank-			
ing, scraper for	John Branson, jr	Sangamon co., Ill	Mar. 18, 1842
Excavating ditches	Herrick Aiken	Franklin, N. H	Feb. 1, 1842
Excavating, ditching, & embank'g	W. Y. Singleton	Springfield, Ill	May 28, 1846
Excavating, ditching machines	Edwin Owen	Laporte, Ia	Sept. 4, 1844
Excavating earth	David C. Lockwood	New Windsor, N. Y	
Excavating earth, elevating box,		•	
wheels for.	James Rowe	Triana, Ala	Feb. 15, 1838
Excavating earth, and removing	James Sawyer	New York city	Mar. 23, 1838
Excavating earth under water	Oliver Teal	Salina, N. Y	Dec. 8, 1829
		Danma, 11. 2	200. 0, 1020
Excavating, excavator or drag for			
removing mud, &c., in beds of	Dannia Varreillian	Washington D.C.	No. 0 1044
rivers	Dennis Vermillion	Washington, D. C	Nov. 9, 1844
Excavating, excavator scoop and	7 10 3	366.13. 01	
_ dredging machine	Joseph Smith	Mansfield, Ohio	Aug. 24, 1844
Excavating and embanking ditches	George Page	Keene, N. H	Oct. 26, 1838
Excavating, embanking, and ditch-			
ing	Linton Thorn	Washington, D. C	Oct. 10, 1838
Excavating machine	Thomas Clayton	Shelbyville, Ia	Dec. 1, 1837
Excavating plough	James Richmond	Hudson, N. Y	June 28, 1817
Excavating and removing earth	George W. Cherry	Washington, D. C.	Jan. 16, 1839
Excavating and removing earth.			,
crane excavator for	William S. Otis	Philadelphia, Pa	Feb. 24, 1839
Excavating and removing earth,		,,	
scraper for	John Scholder	Canton, Ohio	Sept. 25, 1839
Excavating and removing earth	Nathan Currier	Methuen, Mass	
	~ . ~		May 29, 1835
Excavating from rivers	Sylvanus Russell	Buffalo, N. Y	April 28, 1836
Excavating scraper	Dudley Marvin	Canandaigua, N.Y	Sept. 2, 1831
excavating, scrapes for repairing	9 199	37 1 1 27 37	
roads	Samuel G. Sutton	Yorkshire, N. Y	May 30, 1844
Excavating scraper, shovel	Thomas Pierce	Hartwick, N. Y	
Excavating, submarine ploughing.	John Kendrick	Newton, Mass	June 10, 1818
Excavating earth, machine for	D. Carmichael and J.		
- ,	C. Osgnod	Brooklyn, N. Y	May 30, 1846
Excavator	Darius Comstock	Lockport, N. Y	
Excavator	Oliver Allen		May 1, 1845
Excavator, deepening rivers		Pittsburg, Pa	April 1 1845
			Pers 1, 1020
Travator ditching machine	Robert Cummings	Lome la	111 17 14 1948
Excavator, ditching machine Excavator, ditching and road	Robert Cummings	Lyma, la	July 14, 1845

^{*} Antedsted March 24, 1844.

. HARMIJOUS OF DROPANIES.	PATENTAL.	REPRESENT.	WHEN LANGUE.
Excavator, floating	Harvey W. Campbell		Jan. 99, 100
Excavator, floating	Alonson Watson	Pendleton, N. Y	Jan. 18, 183
Excavator, floating	William Morrison and		4
Danamatan inclined plane	George Tomb Dudley Marvin	Jersey Shore, Pa	Aug. 25, 1830
Excavator, inclined plane	J. R. Remington	Canandaigua, N. Y.	Sept. 2, 1831 May 25, 1846
Excavator, machine for ditching Excavator, mud machine	Peter Zaccharie	Lowndes co., Ala	Nov. 24, 1791
Excavator, mud machine	Stephen Colver	Baltimore, Md	Dec. 14, 1798
Excavator, mud machine	John Greenleaf	Massachusetts	July 13, 1802
Excavator, mud machine	Mat. Barney	Massachusetts	May 14, 1803
Excavator, mud machine	John Eveleth	• • • • • • • • • • • • • • • • • • • •	Feb. 21, 1807
Excavator, mud machine	William Shultz	Baltimore, Md	June 16, 1809
Excavator, mud machine	John Newman	Providence, R. I	June 27, 1899
Excavator, mud machine	James Tucker	Baltimore, Md	Dec. 13, 1816
Excavator, mud machine, floating		Baltimore, Md	Jan. 22, 1817
Excavator, mud machine	Samuel Davis	Baltimore, Md	Mar. 28, 1818
Excavator, mud machine	Charles T. Baker	Providence, R. I	April 12, 1819
Excavator, mud machine	John Eveleth J. Watchman & J. Bratt	Georgetown, D. C	Aug. 9, 1821 Feb. 18, 1825
Excavator, mud machine Excavator, mud machine	Samuel Collins	Baltimore, Md New York	Sept. 26, 1826
Excavator, mud machine	Elisha H. Holmes	Norwich, Ct	Nov. 18, 1820
Excavator, mud machine	John Hart	Middletown, Conn	Nov. 20, 1838
Excavator, and self-loading cart	Manoah Alden and W.		,
,	T. Boyd	Northumberland, Pa.	July 20, 1831
Excavator, scraper, metallic	Oliver Teal	Salina, N. Y	Dec. 8, 1829
Excavator, scraper and shovel, for			
removing earth	Nathan Whiting	Chester, Vt	Mar. 19, 1819
Excavator, scraper, or team shovel	Elisha Case	Canton, Conn	April 23, 1822
Excavator, scraper, or team shovel	Price.	Georgetown, D. C., Lockport, N. Y.	May 12, 1897
ences	Isaac Vanamberg	Watertown, N. Y.	Dec. 20, 1843
Fences, and nets, of wire.—See Cl		" dollown, 1". 1	
Forts	Edward Clark	Philadelphia, Pa	April 2, 1819
Houses, portable, constructing	Frederick S. Barnard.	Philadelphia, Pa	Dec. 21, 1839
Hydraulic structures	Isaiah W. P. Lewis	Boston, Mass	May 1, 1845
Gates, balance and sliding	Amon Baker	Western, N. Y	April 10, 1845
Gates and gateways	Andrew Hood	New York	Dec. 16, 1845
Gate, purchase, labor saving, ro-	Joseph Musser and Le- vi B. Gitchel	Canton Ohio	Feb. 11, 1832
tary. Gate, turnpike	Jer. Brainard	Canton, Ohio Canaan, N. Y	April 16, 1810
Gold, digging and procuring	Henry Jordon	Lexington, Ky	Oct. 1, 1830
Gravel pump, for exeavating wells			
	tratrix of James J.		
	Rice, deceased, and		
	Ebenezer Rice	Salina, N. Y	Aug. 15, 1838
Guide boards and sign	Stanley Carter	Raymond, Mass	Nov. 25, 1839
Juide posts	Robert C. Manners	Boston, Mass	Aug. 13, 1833
Inclined planes, ascending and de-	Gidson Promo	Now Vanta siam	Oct. 6, 1837
scending of cars and canal boats inclined planes, ascending and de-	Gideon Brown	New York city	Oct. 6, 1631
scending rivers	James Stimpson	Baltimore, Md	Aug. 23, 1831
inclined planes, assending and de-	Tallion Salapson		
scending upon rail roads	Elisha F. Aldrich	New York city	Oct. 12, 1837
inclined planes, for boats on canals	John Williams	Deerfield, Mass	Mar. 23, 1804
Inclined planes, cogwheels for pro-	į.		
pelling railway and locomotive			0. 05 1939
cars up	William Bent	Philadelphia, Pa	Oct. 25, 1832 June 27, 1825
inclined planes, drawing up vessels	Ed. Clark	New York	April 15, 1825
Inclined planes, double, for canals	Archibald Tanner	1	
Inclined planes, improvement in	R. F. Stevens and L. B. Pitcher.	Syracuse, N. Y	Dec. 28, 1846
machinery for ascending.	Levi Burnell	Elyria, Ohio	June 26, 1834
lualinad planes on mileoeda eecendul		• •	
ing and descending	William F. Ketchum.	Buffalo, N. Y	Mar. 20, 1839
	.,		

^{*} Antedated May 20, 1838.



INVENTIONS OR DISCOVERIES.	Pat entère.	residence.	when maded.
Inclined planes on railroads, ascend-			
ing and descending	John Mercer	Harrisville, Ohio	June 21, 1839
ing and descending	John Drummond	Elizabethtown, N. J.	June 21, 1839
Inclined planes, for raising and lowering boats on canals from			
one level to another	Ephraim Morris		
Inclined planes, raising canal boats Inclined planes, transporting car-	William Knight	Morristown, N. J	June 5, 1828
riages	M. Robinson	Henrico county, Va.	April 9, 1828
Macadamizing roads, &c., break-	Nich. Cooper, jr., and Townsend McConnel		Tune 07 1940
ing stone for	William E. Lukens.		June 27, 1840
Marine railway	John Rogers	Washington, D. C	June 24, 1822
Marine railway	Amasa Miller	New London, Conn.	
Marine railway	Richard Ward	New York	
Marine railway	Jos. Webb	New York	
Marine railway	John H. Greene	Providence, R. I	
Marine railway Marine railway	Amasa Miller Daniel Rogers	New London, Conn. Mobile, Ala	
Marine railway	Richard P. Joraleman	TITOOHO, INM	mpin 0, 1023
	and Isaac Lockman		April 16, 1831
Marine railway	John G. Colley	Norfolk, Va	Sept. 1, 1831
Marine railway	Leonard White	Norfolk, Va	Nov. 15, 1832
Marine railway	Wash'gton Van Dusen	Kensington, Philadel- phia county, Pa	
Marine railway	Robert Tindle, admi- nistrator of Israel	,	
.	Riggin	Baltimore, Md	
Marine railway	Andrew Flanagan Jesse Wood and P. A.	Baltimore, Md	
Marine railway, foundation of	Sabbatan James Ronaldsen and J. L. Neill	New York	•
Marine railway, submarine	John Thomas	Philadelphia, Pa New York	Nov. 6, 1896
Marsh drainer	Jean Blanc	New Orleans, La	July 2, 1836
Mile mark, cast iron	William M. Summers	New York	Jan. 13, 1825
Mouldings, cutting	Samuel Kennedy	New York	April 10, 1830
Mouldings, sticking, on plank	John Judge	Washington, D. C	June 13, 1831
Moving rocks	Isaac Lazell	Massachusetts	Mar. 18, 1798
Pavement, cemented, for streets	John L. Sullivan	New York	Oct. 20, 1831
Pavement, cemented, for streets	John L. Sullivan	New York	Nov. 9, 1831
Paving, blocks of wood	James H. Patterson	New York	
Paving, blocks of wood* Paving, blocks of wood, prismatic	Stephen Carey John Abbott	New Orleans, La Wilton, N. H	
Pavements, cast iron, for streets.	William D. Terry	Boston, Mass	
Pipes, metallic, introducing wire			
into	Samuel F. B. Morse	New York, N. Y	Oct. 25, 1843
Pile driving, for bridges Pile driving, progressive, for rail-	John Stone	Concord, Mass	
roads	Smith Cram	New York city	June 14, 1838
Pile driving machine Pile driving machine, mode of pro-		New Orleans, La	Sept. 18, 1841
gressing	Elijah P. Williams	Utica, N. Y	July 22, 1839
Pipes, aqueduct and conduit.—See			
Pipes, inserting branch pipes thro'		New York N V	July 16, 1842
Privies, constructing	Jonathan Ridgway Mark M. Duplat	New York, N. Y Charleston co., S. C.	
Privies and vaults	Thomas Rundle	Boston, Mass	
	Charles Williams	Boston, Mass	
Railroad		Hoboken, N. J	June 8, 1824
Railroad	John Stephens John Stephens		June 8, 1824

^{*} Patented in England, January 29, 1899.

INVENTIONS OR DISCOVERIES.	Patentees.	RETIDENCE.	WHEN MOURD.
Railroad	J. Brown and G. W		
	Robinson	Providence, R. I	June 6, 1826
Railroad	Edward Dunscomb	New York	July 13, 1830
Railroad	Elisha Johnson	Rochester, N. Y	Nev. 19, 1833
Railroad	Elisha Johnson	Rochester, N. Y	Nov. 23, 1835
Railroad	Nathan Read	Belfast, Me	Mar. 31, 1836
Railroad		Johnstown, Pa	May 22, 1837
Railroads, and carriages	Isaac Knight	Baltimore, Md	June 11, 1829
Railroads, for cars	James Wright Jedediah Richards	Columbia, Pa	April 17, 1829
Railroads, and cars	t e	Elbridge, N. Y	Mar. 9, 1832
Railroads, and cars to turn in and out	James Wright	Columbia, Pa	June 11, 1829
Railroad, chairs of, &c	Moncure Robinson	Philadelphia, Pa	Mar. 16, 1839
Railroad, chairs of	Britton M. Evans	Lancaster, Pa	Dec. 27, 1839
Railroad, chairs of	William Dripps	Coatesville, Pa	
Railroad, cleaning the rails, &c	Thomas S. Ridgway.	Pottsville, Pa	Oct. 31, 1839
Railroad, cleaning the tracks	John N. Dennisson &		Ī
, 3	Elias Kirkpatrick	Plainfield, N. J	July 29, 1839
Railroad, cleaning the tracks	Wm. & Jas. Thorn, jr	Plainfield, N. J	Jan. 29 , 1840
Railroad, cleaning the tracs	Joseph H. Moore	Wooster, Mass)	Oct. 31, 1840
·	Benjamin Woodworth		
Railroad, cleaning the tracks*	Charles Lombaert	Philadelphia, Pa	Mar. 31, 1840
Railroad, connecting cast iron rail	Tomas M. Por	Liamiehum Da	A-mil 19 1944
for	James M. Bay	Harrieburg, Pa	April 13, 1844
Railroad, construction of	James Stimpson James Herron	Baltimore, Md Baltimore, Md	July 26, 1839 April 18, 1840
Railroad, construction of	William Russel	New York	May 8, 1840
Railroad, construction and power		2.00	, 0, 1010
of, applying to propel carriages			
thereonf	John Rangeley	Camberwell, Eng	Dec. 28, 1846
Railroad curves, construction of	Roswell Bourne	Lancaster, Mass	Oct. 10, 1835
Railroad, edge rail and chair	William B. Mitchell	Philadelphia, Pa	Feb. 27, 1833
Railroad, forest	Henry Pinkers and T.		4 '100 1000
n : 1 a	R. Williams	London, England	April 27, 1826
Railroad, frog	George S. Griggs	Roxbury, Mass	July 31, 1837
Railroad gate	David Percival	Middletown, Del	April 4, 1846
Railroad, key for fastening the rails of, to their chairs	Benjamin Butterfield	Kensington, Pa	Aug. 21, 1844
Railroad and locomotive engine-	Denjamin Datter neid	monengwn, ra	11ug. 21, 1011
See Steam Engine, Class 6.	•		
Railroad, with lift of sixteen feet	Ethan Baldwin	Harrisburg, Pa	May 6, 1826
Railroad planes, revolving, for		σ,	, .,
crossing	Jonas P. Fairlamb	Newcastle, Del	July 7, 1830
Railroad platest	James Stimpson	Baltimore, Md	Aug. 23, 1831
Railroad plates, joining	A. M. McCaine	Montgomery, Ala	Mar. 31, 1836
Railroad platform, revolving	John Elgar	Philadelphia, Pa	April 12, 1833
Railroad platform, revolving	John Tustin	Philadelphia, Pa	Sep. 9, 1835
Railroad, preventing cattle on	David Green	Greenfield, N. Y Penn Township	Aug. 25, 1838 Nov. 26, 1835
Railroad, preventing turning Railroad, rails for	John Ruggles	Thomastown, Me	May 22, 1837
Railroad, rails constructing and	John Raggies.	I Holliado wii, 14c	111dy 200, 100,
fastening	Peter Heary Dreyer	New York	Oct. 18, 1837
Railroad, road stops for	Thomas J. West	Whitehall, Va	Mar. 11, 1887
	George W. Cleaveland	Baltimore, Md	Oct. 14, 1885
Railroad, and safety car	Alexander McGrew	Cincinnati, Ohio	June 13, 1831
	Gustavus A. Nicholls.	Reading, Pa	Dec. 19, 1844
Railroad scrapers	H. Naglee & Thomas	DU 111 -	D 00 1041
Dailroad self-adirection	Raney	Philadelphia, Pa	
Railroad, self-adjusting	W. T. James	New York	Oct. 27, 1835
Railroad, self-adjusting and street	John Pollock	Honewell I De	July 7, 18 30
	John Pollock	Hopewell, Pa Boston, Mass	May 6, 1895
		Freehold, N. I	April 17, 1837
* Antodage	d Jan. 15, 1840. † Antedate		A Asses 67 146

[‡] Renewed by act of Congress, seven years from Aug. 23, 1845. Reissued Sept. 26, '35, and Aug. 27, '44.

	 		
Distribute or Discovering.	PATENTERS.	residence.	WHEN MAYED.
Railroad, switches, opening and			
shutting	James Stimpson	Baltimore, Md	Aug. 93, 1831
Railroad, switches	William Howard	Baltimore, Md	Aug. 2, 1832
Railroad, switches for	Nathaniel Eaton	Worcester, Mass	Sep. 3, 1840
Railroad, switches for, self-ad-	71.4.	Manufamilla Da	
justing	John C. Past	Morrisville, Pa Baltimore, Md	Aug. 21, 1839
Railroad, switches for, shifting	Richard W. Sheckells Jesse La Rue	Bristol, Pa	Oct. 22, 1840
Railroad, switches for, shifting	Philos B. Tyler	New Orleans, La	May 9, 1846
Railroad, timber	James Stimpson	Baltimore, Md	Feb. 16, 1830
Railroad, timber	James Stimpson	Baltimore, Md	Aug. 13, 1838
Railroad, tracks	Benjamin H. Latrobe.	Baltimore, Md	Oct. 8, 1840
Railroad tracks for cars to turn		DI 4 1 1 1 2 D	
short curves	Henry M. Naglee	Philadelphia, Pa	Aug. 22, 1840
Railroad truck-frames	Davenport & Bridges, assignees of Charles		
.Dailusadin u al au	Davenport	Cambridgeport, Mas	
Railroad, turning short curves	James Stimpson	Baltimore, Md Baltimore, Md	Aug. 30, 1831
Railroad, turning short curves* Railroad, turn about for	James Stimpson Jeremiah Myers		Aug. 23, 1831
Railroad, turn out	John Talbot	Attleborough, Mass. Portsmouth, Va	May 8, 1837 Oct. 11, 1836
Railroad, and wheels	Edward C. Hyde	Natchez, Miss	Dec. 3, 1834
Railway, portable, endless	Jer. Price	New York	Sept. 15, 1826
Railway bars, and mode of fasten-			
Railway, pneumatic, valves for	Edward Tilghman Samuel Clegg and Ja-	Philadelphia, Pa	Dec. 5, 1839
	cob Samuda	England	Dec. 31, 1840
Raising canal boats	Elisha Turner	Rochester, N. Y	Dec. 18, 1825
Raising canal boats	Elisha Turner	Rochester, N. Y Rochester, N.Y	Dec. 31, 1825
Raising canal boats	Seth C. Jones William Wiard	Avon, N. Y	June 16, 1826 May 1, 1828
Raising canal boats, ships	William W. Smith	Rochester, N. Y	Feb. 23, 1830
Raising canal boats and vessels	Alfred Warner	Rochester, N Y	Nov. 16, 1826
Raising canal boats and vessels	Sylvester Doolittle	Rochester, N. Y	Oct. 25, 1825
Raising wrecks of vessels Rapids, and shallow rivers, making	Phineas Bennet	New York	Sept. 2, 1845
navigable	John Stephens	Hoboken, N. J	June 8, 1824
ler.	Smith Cram	New York city	Oct. 26, 1838
Roads, constructing	John S. Williams	Hamilton county, O.	June 29, 1833
Roads, constructing	John Hartman Thomas Earle	Scottsville, Va Burlington, N. J	June 29, 1833
Roads, constructing	John S. Williams	Fulton, Ohio	Oct. 14, 1835 July 1, 1836
Roads, constructing with cement		Albany, N. Y	Aug. 17, 1835
Roads, roller, and wheel, and car-			•
riages for	John Gardiner	Washington, D. C.	Mar. 16, 1829
Reads, streets, &c., cleaning	John Tucker	New York	Nov. 10, 1819
Roeds, streets, &c., of composition Rocks, machine for drilling	John Martineau Hiram H. Scoville, as-	Elbridge, N. Y	Aug. 11, 1834
Rock and earth boring apparatus	T. S. Speakman & R.	Chicago, Ill	Sept. 9, 1845
Roofs, flat, for houses	A. Stratton Henry Johnson	Philadelphia, Pa Baltimore, Md	Sept. 17, 1845 May 10, 1802
Roofs of houses, &c., manner of			Mar. 26, 1844
making†	John Wooley Nathaniel Adams	Springfield, Mass Marlborough, N. Y.	July 29, 1829
Roofs	Peter U. Ware	Albemarle Va	Nov. 11, 1830
Roofs, covering with metal	Peter Naylor	New York, N. Y	Sept. 11, 1839
Roofs, covering with oiled cloth	Hazard Knowles	Colchester, Ct	Oct. 10, 1828
Roofs, covering with sheet iron	Charles Bonnycastle	Charlottesville, Va	June 29, 1833
Roofs, covering with tin	Richard S. Tilden	Lynchburg, Va	Sept. 10, 1829
Roofs, covering with tin	Andrew Gandois and	D	Tam # 1000
Roofs covering with tin	J. Swales	Petersburg, .Va	Jan. 5, 1833
Roofs, covering with tin	JUIN DOUIS	Baltimore, Md	June 20, 1033

^{*} Renewed by act of Congress seven years from August 23, 1845. † Antedated March 16, 1844.

INVENTIONS OR DISCOVERIES.	Pa tentied.	RESIDENCE.	WHILE SHUES
Roofs, covering with tin	Charles Bonnycastle	Leesburg, Va	Ang. 17, 160
Roofs, covering with tin	Phineas Burgess	Brooklyn, N. Y	Aug. 17, 169 Oct. 17, 189
Roofs, covering with tin	John B. Duval	Charleston, S. C	Sept. 19, 165
Roofs, fire proof and water tight.	John Henson	Lexington, Va	Feb. 28, 189
Roofs of houses, &c., securing tin			
plate, &c., on	Peter Naylor	New York, N. Y	April 25, 184
Roofs, metal, supporting	Peter Naylor	New York, N. Y	June 12, 188
Roofs, metallic, rendering water	_ 0.01 ,		
tight	John W. Boech	Charleston, S. C	Nov. 12, 184
Roofs, shingling	Thomas Young	Philadelphia, Pa	May 11, 1807
Roofing houses	William Docker	New Orleans, La	Dec. 10, 1844
	William Beach	Philadelphia, Pa	April 23, 1843
Roofing, cast iron	·	• ′	•
bending metal plates	John Iggett	Albany, N. Y	July 15, 1843
Roofing houses, constructing of	55	• •	•
metal	John G. Woodin	Cincinnati, Ohio	July 8, 1843
Rut shears, for repairing and im-			•
proving roads	Samuel Mallory	Alexander, N. Y	July 26, 1843
Sewer, common mouthed	Alexander Ramsey	Philadelphia, Pa	Oct. 3, 1890
Sewer, of hydraulic cement	Obadiah Parker	New York city	July 2, 1836
Stairs, for bridges or ferries	David Dunham	New York	June 28, 1814
Stairs, circular	Edward B. Smith	Buffalo, N. Y	Nov. 15, 1832
Snags, removing	Henry M. Shreve	St. Louis, Mo	Sept. 12, 1838
Snags, sawing or cutting	James Hamilton	New York	June 27, 1839
Stair casings in buildings, ar-			,
ranging	William P. Gibbs	Boston, Mass	June 14, 1843
Stone eradicator	John C. Blauvelt	Newton, Ct	Mar. 2, 1835
Streets, machine for sweeping	Alexander M. Wilson		Oct. 16, 1844
Streets and roads, grading	Randal Fish	New York	Nov. 9, 1839
Streets, sweeping	Pliny Robinson	Leonardsville, N. Y	July 20, 1843
Streets, sweeping	Alexander Jones	New York, N. Y	July 28, 1843
Streets, sweeping*	Thomas Mussey	New London, Ct	Oct. 12, 1843
Streets, sweeping and cleaning	Joseph Whitworth	Manchester, Eng	June 1, 1843
Stumps, extracting	Alexander Craig	New Hampshire	April 15, 1807
Stumps, extracting	David Stone	Clermont, N. H	July 27, 1809
Stumps, extracting	Abieza H. Whitney	Bowdoinham, Me	Mar. 15, 1896
Stumps, extracting	Abijah Pratt	Jackson, N. Y	Aug. 17, 1827
Stumps, extracting	Abijah Gorham	Turner, Maine	Jan. 7, 1831
Stumps, extracting	Willard Foster	Owego, N. Y	April 22, 1831
Stumps, extracting	Elias Fraser	Hector, N. Y	Dec. 31, 1833
Stumps, extracting	Henry Gordon	Fountain Dale, Pa	Jan. 16, 1835
Stump extracting	Benjamin Burling	Catherine, N. Y	June 25, 1839
Stump extracting	John D. Akin	Columbus, Pa	Feb. 26, 1849
Stump extracting	Miles C. Mix	Tompkins co., N.Y.	Mar. 31, 1849
Stump extracting	Frederick A. Steuart .	Catherine, N. Y	April 30, 1849
Stump extracting	Lewis & Chs. Howard	Reading, N. Y	Sept. 14, 1840
Stump extracting	Eleazer Marble	Wyalusing, Pa	Dec. 14, 1840
Stumpertracting	(Belden B. Mason	Randolph N.Y.	Feb. 10, 1841
Stump extracting	Matthews Joslyn	Napoli	r co. 10, 1041
Stump extracting	Luke F. Cavenaugh	New Field, N. Y	May 15, 1841
Stumps, extracting, and moving		1	•
heavy bodies	Roswell H. Hall	Branchport, N. Y	Sept. 15, 1838
Stumps, extracting, and removing		• •	
	John E. Larkin	Salem, N. Y	Oct. 25, 1852
Stumps and rock, extracting	Leonard Norcross	Dixfield, Maine	June 15, 1835
Submarine passage	John Staples, jr	New York	Mar. 18, 1801
Surveying hydrographic, art of	H. Anvil Norris	New York	June 27, 1840
Pelegraph	John Grout, ir	Massachusetts !	Oct. 24, 1800
Property of the second	William Shultz	Baltimore, Md	June 14, 1809
Pelegraph			
relegraph	James L. Elford	Charleston, S. C	June 18, 1822
relegraph relegraph relegraph, domestic	Daniel Pierson	Boston, Mass	Mar. 2, 1823
relegraph relegraph relegraph, domestic	Daniel Pierson	Boston, Mass	Mar. 2, 1823
Telegraph. Felegraph, domestic Felegraph, signal. Felegraph, signal. Fimber, uniting, for domes	Daniel Pierson Henry J. Rogers William Anneslev	Baltimore, Md Albany, N. Y	Mar. 2, 1823 Sept. 27, 1844 Nov. 6, 1839
relegraph	Daniel Pierson Henry J. Rogers William Anneslev	Baltimore, Md Albany, N. Y	Mar. 2, 1823 Sept. 27, 1844 Nov. 6, 1839

алунический ок ракосумалии.	PATENTONS.	residence.	WHEN INSUED.	
Tannelling rivers	J.B.Bucklin&J.Jacobs	West Tray, N. Y	June 11, 1836	
Tubes, clay, for aqueducts See				
Vaults	Ezra Ludlow	New York	Dec. 14, 1824	
Vaults	Henry Hallock	New York	Oct. 24, 1826	
Walls and ceilings, protecting from	Deter Novley	Nom Vouls	E-b 00 1090	
Wells building in deen water	Peter Naylor	New York Boston, Mass	Feb. 22, 1839 Sept. 23, 1833	
Walls, building, in deep water Water, mode of obtaining	Timothy Davis	Lawgence to'n'p, Ind		
Weather strip*	Alex. Kirkpatrick	Newark, N. J	Dec. 14, 1840	
Wells, artesian, boring, uniting an		·		
auger to the sinking for boring.	William Morris	Kanawha co., Va	Sept. 4, 1841	
Wells, curb or case for	Job Copperthwaite, ar.		April 13, 1809	
Wells, sinking	Peleg Easton	Nantucket, Mass	Feb. 1, 1810	
Wells, sinking	E. Hilyard	Philadelphia, Pa	Dec. 10, 1817	
Wells, sinking	Tobias Ruffner Ebenezer Rice	Kenawha, Va New York	Nov 96 1840	
Wharves, constructing	James Butler	Baltimore, Md	Sept. 9, 1813	
Wharves, floating, for catching fish		Havre-de-Grace, Md	June 24, 1820	
Wharves, piers, &c., constructing		Brooklyn, N. Y	Jan. 6, 1836	
Wier, for catching fish	Hawley Emerson	Hancock	Aug. 14, 1811	
Window blinds	George Munger	Cambridge, Md Boston, Mass	Mar. 20, 1817	
Window blinds	John Parkerson	Boston, Mass	Oct. 11, 1828	
Window blinds	Nathan Palmer	New York		
Window blinds	Garner Wilkinson	White Creek, N. Y.	Jan. 8, 1842	
Window blinds, opening and shut- ting	Edwin Keith	Bridgewater, Mass	Jan. 25, 1833	
Window and door blinds	Sevil Steere	Gloucester, R. I		
Window and door frames	John Jordan	Rockbridge co., Va.	April 30, 1817	
Window and other frames, cover-			•	
ing with wove wire	James Sellers	Philadelphia, Pa	Feb. 18, 1834	
Window fastener.—See Class 2.			4 .0 .000	
Window frieze and covering	Williams Woolley	New York		
Windows improvement in	Williams Woolley	New York	July 1, 1836	
Windows, improvement in	James Ogden and D.R. Hart	Troy, N. Y	Mar. 21, 1846	
Window sash	Stephen Parsons	Massachusetts	Nov. 20, 1797	
Window sash	John Hoover	New York	Nov. 19, 1804	
Window sash	Joel Farnham	Oswego, N. Y Somerset, Conn	Jan. 7, 1809	
Window sash	Jer. Bliss	Somerset, Conn	June 17, 1817	
Window sash	Amos Miner	Elbridge, N. Y Poughkeepsie, N. Y.	July 9, 1823	
Window sash†		Poughkeepsie, N. Y.	Dec. 6, 1830	
Window sash	Amos Miner	Elbridge, N. Y	Nov. 19, 1833 Jan. 29, 1834	
Window sash.	Joseph Ingham Jedediah Richards, jr.	Wyalusing, Pa Elbridge, N. Y		
Window sash	C.J. Shirrer and T.W.	1110114go, 11. 111111	21011 22, 2020	
	Cross	Boston, Mass	Mar. 21, 1845	
Window sash, blinds, and pannel		·		
work	John Tichenor	Ithaca, N. Y	Mar. 25, 1833	
Window sash, hanging	William W. Hopkins	Norfolk co., Va Petersburg, Pa	Feb. 24, 1804	
Window sash, hanging	Francis Follet	Petersburg, Pa	Oct. 15, 1822	
Window sash, laying out	David Worthington	Hartford, Conn		
Window sash, mortising Window sash, preparing stuff for.	Orin Ellis	Orange, Mass Norwich, Cenn		
Window sash, raising	William Long	Connecticut	Nov. 20, 1800	
Window sash, stuff for trying	Eben Bassford	Livermore, Mass		
Window shutter, fire-proof	J. Brown and George	· ·	1 -	
	W. Robinson Truman Bartholomew	Providence, R. I	Mar. 16, 1826	
Window shutter	Truman Bartholomew	New York	June 17, 1809	
Window shutters or guards				
* Antedated Nov. 90, 1840.	† Rois	sund Dec. 6, 1839, and Ja	n. 29, 1834.	

CLASS No. X.

LAND CONVEYANCE,

Comprising Carriages, Cars, and other Vehicles, used on Roads, and parts thereof.

LIST OF PATENTS.

CLASS X.—LAND CONVEYANCE, comprising Curviages, Care, and other Fabicles, used on Roads, and parts thereof.

HVENTIONS OR DECOVERIES.	PATENTENS.	residence.	WHEN MOURD.
Alarm, for coaches	Welter Hunt	New York	July 30, 1997
Axle	Dan'l W. Phillips and		
Ambar & Lamar &	Wm. Maher	Middlebury, Covin'n	April 23, 1829
Axles & boxes for carriage wheels Axles for carriages		Skancateles, N. Y	Dec. 5, 1840
Axles & hubs for carriage wheels.	Oren Tracy	Fitchburg, Mass Skancateles, N. Y	Dec. 12, 1846 Sept. 18, 1841
Axle, moveable	George N. Reynolds .	Charleston, S. C	April 29, 1819
Axles of railroad cars	Nathaniel Miller and	Franklin, Mass ?	
	Edward Bancroft	Providence, R. I 5	Dec. 15, 1843
Axles of railroad cars, strengthen-			
ing, &c.	lison	Philadelphia, Pa	Nov. 3, 1841
Axles and shafts, oiling horizontal Axle, and thorough boxes, for car-	Hiram M. Smith	Richmend, Va	April 15, 1840
ringes	William Slicer	Baltimore, Md	July 5, 1837
Axletrees and boxes	Cyrus Beach	Newark, N. J	June 26, 1807
Axletrees and boxes	James A. Smith	New Haven, Conn .	Mar. 23, 1838
Axletrees and boxes for carriages	Dexter C. Force and	,	•
and railroad cars.*	Fred. Davis	Baltimore, Md	Nov. 6, 1834
Axietrees for carriages	Alexander Johnson	Newark, N. J	Feb. 9, 1838
Axletrees for carriages and cars Axletrees, diminishing friction	Spencer Coleman Robert Kilborn	Mount Pleasant, Va. Gr. Barrington, Mass	Mar. 2, 1836 April 12, 1806
Axletrees, diminishing friction	Benjamin Hinkley	Fayette, Kennebec co	April 12, 1000
,	Soulder Himmey	Maine	April 14, 1835
Axletrees, hub	Rezin Haslup	Baltimore, Md	Feb. 24, 1831
Axietrees, hub and spokes	Garner Wilkinson	White creek, N. Y	Dec. 6, 1831
Axletrees, machine for greating Axletrees, railroad cars, breaking	Fred. Beimler	New York	Aug. 22, 1816
prevented	Joseph S. Kite	Philadelphia, Pa	July 14, 1834
Axietrees, railroad cars, strength- ening of.	Ziba Durkee	Philadelphia, Pa	Jan. 9, 1838
Axletrees, railway and other car-	ZIOU DUI AGO	I maccipina, va	o, 2000
riages	Ross Winans	Baltimore, Md	July 20, 1831
Axletrees, reduced friction rollers.	Francis Rees	Clarksville, Ga	April 14, 1832
Axletree, revolving	Isaac Slack	Avondale, Pa	Oct. 10, 1846
Axletrees, &c., setting	Timothy Fessenden	Boston, Mass	Sept. 25, 1837
Axietsees, for wagons, &c Axietrees and wheels	John A. Yeckley Aaron Halo	Perry, N. Y	June 7, 1830 April 2, 1835
Baggage, securing, on post coaches	James Stratter	Boston, Mass Greenfield, Mass	June 19, 1830
Beet box, maring, open, packed	William Atchison	New York	May 23, 1815
Boxes, anti-friction, for car axles	Thee.Murray Megget,	New Orleans, La.)	
·	assignee of William		Oct. 9, 1845
Puritage amounting the sureline of any	Rowan	Belfast, Ireland)	
Brakes, arresting the motion of car- riage wheels	Come Wellen	Lawisham Va	July 8, 1839
Brakes, friction, for railroad care,	Cyrus Welker	Lowisburg, Va	7 0, 1000
machinery for operating	John L. Charke	Nashua, N. H	April 11, 1840
Brakes for car wheels t	William McCammon.	Albany, N. Y	Dec. 12, 1846
Brakes for carriage wheels	William Dunning	Dunningsville, Pa	Nov. 1, 1845
Brakes for carriage wheels	David D. Gibson and	n	TI.L 10 1045
	Walker Cobbs	Damascoville, Ohio .	Feb. 12, 1945
Resident for commission and and	Flick Observer	Abus Obis	Q OC 1040
Brakes for carriage wheels Brakes, carriage, self-acting	Elijah Chapman Samuel Cope	Akron, Ohio Salem, Ohio	Sept. 26, 1846

CHARMITONS OF DESCONDENS.	PATEMPESS.	residence.	WEEK HIVED.
Brake, carriage, self-acting Brakes for carriage wheels, self-	Z. C. Robbins	Washington, D. C	June 13, 1846
acting	John Du Bois, jr	Cascade, Pa	June 13, 1846
Brake or lock, for arresting the motion of spring carriages.	of Wm. Clayton	Marshalton, Pa	June 18, 1842
Brakes of railroad cars, machinery for operating.	John R. Grout	Utica, N. Y	Aug. 25, 1842
Brakes, self-acting, for inclined	Nathan Smith	Waterloo, N. J	Nov. 28, 1842
Brakes, safety, self-acting, for rail- road cars	George S. Griggs	Roxbury, Mass	Dec. 31, 1839
Brakes, railroad cars Brake for railroad cars	Petrus J. O. Conway. William Clayton	Philadelphia, Pa Marshalton, Pa	Sept. 10, 1840 Aug. 18, 1846
Brakes, railroad car, preventing accidents.		New York	May 8, 1840
Brakes for retarding carriages Brakes for railroad cars	Moses S. Woodward . Henry C. Sides	Marshalton, Pa Baltimore, Md	Dec. 4, 1843 July 12, 1843
Brake for railroad cars, self-acting		Chatham, N. Y Port Clinton, Pa	Aug. 12, 1846
Brakes, for cars, eccentric	Ephraim Morris	Bloomfield, N. Y	Dec. 2, 1835 Sept. 19, 1836
Brakes, wagon, self-regulating Brakers, cylindrical, for retarding		Ward, Mass	Aug. 29, 1828
Bumpers, applied to locomotives	Smith Cram	New York	June 2, 1836
&c. Bumper and draught springs or	C. Judson	Philadelphia, Pa	Jan. 9, 1838
railroad carsBumpers, in spring draught, for	Fowler M. Ray	Cattakill, N. Y	July 29, 1841
railroad cars*	Peter Alverson Levi B. Thyng	New Haven, Conn . Lowell, Mass	Sept. 8, 1838 Nov. 18, 1845
Car, circular	Jonathan Crane James Rowe	Schenectady, N. Y.	Oct. 1, 1830 Oct. 28, 1837
Car, door fastening	John K. Smith Sands Olcott	Port Clinton, Pa	Feb. 12, 1830
Car, for inclined planes, &c	William Hestor		Sept. 11, 1828 Oct. 11, 1830
Car, locomotive, and rails adapted thereto.	Emmor Kimber	Kimberton, Pa	Mar. 5, 1831
Car, and locomotive engines.—Sec	John C. Blauvelt	Rockland co., N. Y.	
Car, railroad	Charles Williams Richard P. Morgan	Richmond, Va Stockbridge, Mass	
Car, railroad	Ross Winans	Vernon, N. J Baltimore, Md	Oct. 11, 1826
Car, railroad †	Isaac Knight	Baltimore, Md	Mar. 18, 1829
Car, railroad Car, railroad	John J. Reekers John L. Sullivan	Baltimore, Md Philadelphia, Pa	Dec. 11, 1829
Car, railroad			Mar. 2, 1830
Car, railroad	John Elgar	Baltimore, Md	
Car, railroad	Isaac Hiett	Davidson co., Tenn.	
Car, railroad	. Isaac Cooper . Samuel Snyder	Baltimore, Md Lancaster, Pa	Nov. 10, 1839
Car, railroad		Philadelphia, Pa Baltimore, Md	Oct. 1, 1834
Car, railroad	John Withers J.Davis&W.Ashdown	Bart township, Pa Baltimore, Md	Mar. 25, 1835
Car, railroad	of Alex'r Plantou, adm'r	Philadelphia, Pa	1
Car, railroad	. Sam'l Harrison, jr	Philadelphia, Pa	. April 24, 1830
Car, railroad, attaching	. L. Pickering and J	Boston, Mass.	
*Additional imp Oct OF 1439 44	- Lighted Man 17 1945 AD		

*Additional imp. Oct. 95, 1838. †Antedated May 17, 1845. †Reissued July 19, 1834, and April 38, 1838. | Additional improvement Nov. 21, 1842

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MITTIFELENS OR DEMOTERIES.	PATRETEES.	responds.	WHEN INDUSTR
Car, railroad, connecting links for Cars, railroad, coupling	Richard Hemming J. A. Cutting and Geo.	Boston, Mass	Oct. 11, 1845
Car, railroad, cylindrical Car, railroad, easing the shock in	Butterfield	Boston, Mass Albany, N. Y	Oct. 7, 1846 May 4, 1829
Car, railroad, frame for	Charles Davenport Heinrich Bachman	Cambridge, Mass Lancaster, Pa	Sept. 9, 1835 May 2, 1835
Car, railroad, locomotive, coupling bars of	William D. Chesnut	Wilmington, Del	Feb. 20, 1844
necting	Robert Grant John Stephenson	Philadelphia, Pa New York	July 22, 1837 April 22, 1833
Car, railroad, pendulous Car, railroad, to prevent accidents from what are called "snake	Samuel T. Jones	Philadelphia, Pa	Feb. 22, 1830
Car, railroad, propelling	Elisha Tolles	New York, N. Y Philadelphia, Pa	Feb. 20, 1844 Mar. 9, 1831
Car, railroad, propelling by horse	James Stimpson	Baltimore, Md	Feb. 16, 1830
cars for removing gravel and earth on railroads	Daniel W. Crocker Granville Palmer	Philadelphia, Pa Greenbush, N. Y	Oct. 30, 1834 Jan. 16, 1843
Car, railroad, replacing upon track Car, railroad, to run on roads and streets	Samuel H. Bean Samuel T. Jones	Philadelphia, Pa Philadelphia, Pa	Oct. 11, 1845 Feb. 22, 1830
Car, railroad, running on a single	Charles F. Zimpel	New Orleans, La	Oct. 15, 1831
Car, railroad, safety	William Kinkead James Wright Lewis Wernwag	Elkton, Md Columbia, Pa Harper's Ferry, Va.	Dec. 29, 1837 Sept. 10, 1829 Nov. 16, 1831
Car, railroad, self-guiding and ac- commodating	Levin Clark Richard Imlay	Baltimore, Md Philadelpnia, Pa	Sept. 28, 1831 Sept. 21, 1837
Car, railroad, turning curves Car, railroad, turning with facility	John H. Quail Anthony Shermer	Philadelphia, Pa Philadelphia, Pa	Feb. 25, 1844 Sept. 9, 1835
Car, railroad, and wagon Car, railroad, and wagon Car, safety	William Howard James Herron John Tittle	Baltimore, Md Richmond, Va Johnstown, Pa	April 23, 1831 Mar. 25, 1835 Feb. 10, 1846
Car, safety, and railroad.—See Cl Car, self-loading	Isaac Beach	Dryden, N. Y	June 28, 1830 June 11, 1836
Car, and way for moving weights Carriage	Thomas Patton, sen Stephen W. Dana	Bowling Green, Ky. Rutland, Vt	Dec. 17, 1834 Aug. 30, 1808
Carriage	William Ross Benjamin Peck Horatio G. Spafford	New York Philadelphia, Pa Albany, N. Y	Jan. 14, 1809 July 5, 1814 Nov. 25, 1814
Carriage	Benjamin Hale John B. Swann John B. Swann	Newburyport, Mass. Albany, N. Y Albany, N. Y	Oct. 4, 1817 Sept. 29, 1818 July 24, 1823
Carriage	Bernard J. Malfeason. Wm. & Josiah Jessup	Burlington, N. J	April 6, 1824 June 1, 1827
Carriage	Theo. Brooks & D. W. Eames Thomas Knox	Rutland, N. Y Sniggersville, Va	Dec. 6, 1827 Mar. 15, 1828
Carriage bodies.	John T. Kimball Edward Gibson	Kennebunk, Me New York	July 22, 1845 May 10, 1811
Carriage bodies			
the pearch by means of springs* Carriage bodies, hanging Carriage bodies, hanging	Azima Vallerchamp Dimon B. Barnum	McDowellsville, Pa. New Field, Ct	Oct. 12, 1839 Oct. 16, 1839
Carriage bodies, hanging	Iza W. Brittan	Medina, Ohio	Oct. 26, 1839

Printer March 14, 1843

MATHITOMS OR DISCOMBLES	PATENTEES.	PARMENCE.	HITTH ASSESSOR
Carriage bodies, hanging	John Reynolds	Newberry, Pa	July 9, 1944 June 9, 1945
Carriage bodies, hanging	Arnold Hosmer	Bath, Ohio	June 9, 1885
Carriage bodies, and stage	Joseph Smith	Lancaster, Pa	TOTAL TOTAL
Carriage, calash top	George Holloway	Baltimore, Md	Sept. 9, 186
Carriage, car bodies, hanging	George S. Hacker	Charleston, S. C	Jan. 21, 194
Carriages, construction of	John C. Stroebel	Pennsylvania	Sept. 19, 1903
Carriages, construction of Carriages, construction of	Daniel Neall Samuel C. Brown and Levi J. Hicks	Milford, Del	Feb. 26, 1814
Carriages, detaching horses from .	John Madden	Macedon, N. Y Warren, Ohio	July 17, 1837 July 9, 1844
Carriages, detaching horses from.	H. C. Wiatt	Weldon, N. C	Oct. 29, 1846
Carriages, disengaging horses from	William Start	Greensborough, Md.	
Carriages, disengaging horses from	Robert Beale	Washington, D. C	May 12, 1832
Carriages, disengaging horses from	O. R. Broyles	Anderson c. h., S.C.	Mar. 17, 1834
Carriages, disengaging horses from	George Kintzi	Exeter, Pa	May 4, 1842
Carriages, disengaging horses from	Jacob Harlacker	Lancaster, Pa	Nov. 4, 1842
Carriages, disengaging horses from	David Little	Gettysburg, Pa	Mar. 30, 1843
Carriages, disengaging horses from Carriages, four-wheeled, coupling.	James S. Shnell	Shiremanstown, Pa.	April 13, 1844 Jan. 27, 1843
Carriages, four-wheeled, coupling	Alfred Osgood	Charlestown, Ohio	3011. 41, 1030
the forward axle with the reach	_		ļ
and head block	Alexander H. Hart	Chagrin Falls, Ohio.	Sept. 23, 1843
Carriages, 4-wheeled, cross cramp		Newtown, Ct	May 4, 1805
Carriages, hand	Daniel Nine, jr	Reading, Pa	May 4, 1813
Carriages, hanging & placing steps	John J. Wells	Hartford, Ct	Jan. 24, 1815
Carriages, impeding, descending			
hills	Gorham Bunker	Truxton, N. Y	July 5, 1833
Carriages, land and steam	Simon Fairman	Nassau, N. Y	Mar. 27, 1830
Carriages, locomotive, connecting three or more sets of driving		Roston Mass	April 1 1845
wheels	Holmes Hinckley Wm. Norris, ass'ee of	Boston, Mass	April 1, 1845
gines.	S. Norris and Wm.		
-	Knight	Philadelphia, Pa	Feb. 10, 1843
Carriages and machinery, when		}	l
wheels are used	Williams & King	Hartford, Ct	May 16, 1835
Carriages, manual, four-wheeled.		Whitestown, N. Y.	Mar. 28, 1811
Carriages, measuring distance	Fuller & Richardson	Brunswick, Me	May 29, 1835
Carriages, overcome obstructions in roads.	Hazard Knowles	Coloborton Ct	Aug. 29, 1833
Carriages, regulating the speed of		Springfield, Mass	Dec. 28, 1825
Carriages, propelling	J. Staples	New York	April 25, 1794
Carriages, propelling		Maryland	April 29, 1797
Carriages, propelling	Milton F. Colburn	Baltimore, Md	April 7, 1829
Carriages, propelling.—See Propel	ling Boats, Class 7.		
Carriages, railroad	John A. Whitford	Saratoga Sp'gs, N. Y	Jan. 20, 1841
Carriages, railroad			34 4 1041
Carriago on ann milas d	Davenport	Cambridgeport, Mas	May 4, 1841
Carriage or car, railroad	Isaac N. Stanley	Philadelphia, Pa	Mar. 12, 1849
disconnecting.	James Stimpson	Baltimore, Md	Dec. 10, 1849
Carriage, railroad, coupling irons	Janua Dangeon	berimore's tota	77,77
for	Thomas G. Owen	Baltimore, Md	July 1, 1849
Carriage, railroad, constructing	Lewis J. Germain	Baltimore, Md Cattskill, N. Y	May 7, 1899
Carriage, railroad, discharging	:	1	
plocks of ice therefrom to plat-	·) <u>-</u>		D 10 1011
forms.	Nathaniel J. Wyeth	Cambridge, Mass	Dec. 10, 1841
Carriages, railroad, machinery for	Made and a Terror	0	Dec. 10, 1841
elevating and depositing ice in.	Nathaniel J. Wyeth.	Cambridge, Mass	100. 10, 1033
Carriages, railroad, turning curver	Perry G. Gardiner, as'e of Isaac Bullock	New York	Oct. 11, 1841
Carriages, railroad See Steam I	moine Class 6	ATEM TOTAL	1
Carriages, railway	William C. Fuller	Middlesex.co., Eng.	Oct. 24, 1846
	1	}	[

sections or describing.	PATHIEFIDS:	nadiatores.	when model
Sarringes, for removing heavy bo-			
dies	Ephraim Bowen	Ledyard, N. Y	April 9, 1829
hills*	Ezra Slifer	Boomsborough, Md.	Jan. 16, 1826
Carriages, rolling lever	Harvey Chapman	Corinth, N. Y	Mar. 24, 1831
Carriages, safety, double axletree. Carriage shaft, clip for	Edward G. Fitch John Cooper	Blakely, Ala New York	Feb. 7, 1826 Jan. 22, 1839
Carriage spring	Starr Fairchild	Trumbull, Ct	Mar. 14, 1846
Carriages, spring perch for	Stephen Tomlinson	Bridgeport, Ct	May 16, 1849
Carriages, (sulkies)	John R. Remington	Lowndes co., Ala	April 4, 1846
Carriages, suspending, pleasure Carriages, two-wheeled	Joseph Henderson	Guilford, Ct	Dec. 26, 1808
Carriages, travelling	John Page		Sept. 14, 1840 July 8, 1821
Carriages, wheeled, sust'g weight	Samuel Chapman		Mar. 2, 1835
Carriage trucks, chain applied to.	Jonathan Knowles	Lowell, Mass	July 28, 1846
Carriage, wagons, couplings for			June 13, 1844
Carriage, whipple-tree for	Benj. Fowler, jr., ass'e		Tuna 7 1940
Carryall	of James Jorey Frederick Shelton		June 7, 1840 Dec. 2, 1834
Cart bodies, mode of operating	Thomas Mussey		Nov. 1, 1845
Carts, chain and railway, for lo-		1	,
velling hills	John H. Morrison		Sept. 28, 1813
Carts, self-balanced, hand Carts, self-loading	George Coolidge		June 13, 1831
Carts, removing earth	Waldron Beach Jer. Price		Feb. 5, 1828 May 18, 1827
Carts, wagons, &c., loading	Noah Osborn		May 23, 1826
Chaise bodies, Grecian	Phineas Dow	Boston, Mass	
Coaches	Fred. Bremler		April 24, 1816
Coaches	Fred. Bremler Benjamin Hale		Jan. 21, 1812 Jan. 17, 1818
Coaches, accommodation	John Mead	Albany, N. Y	Mar. 13, 1817
Coaches, barouches	Robert Gedney	New York	April 7, 1832
Coaches, hanging curtains or blinds	l 	D1 2 2 1 2 2 D	35 0 100
nn Coaches, pannels	Peter Harvey Eben. A. Lester	Philadelphia, Pa Boston, Mass	
Coaches, post, and other	Richard Ward	Schenectady, N. Y.	
Coaches, pleasure carriages and		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1, 2000
railroad cars	Thomas Shriver	Cumberland, Md	
Coaches, steam	James Semple	Alton, Ill	May 1, 1845
Inclined planes, mode of ascending	John Eberts	Philadelphia, Pa	Sept. 8, 1815
and descending by locomotives.	Ezra Coleman	Philadelphia, Pa	Dec. 31, 1845
Journals of railroad cars, construct-			
ing the bearings and oil boxest.	John H. Tims	Newark, N. J	Oct. 31, 1839
Link, self-separating, for connect- ing railroad cars.	Conrad H. Hunt and Wm. Brown	Fredericksburg, Va.	Dec 96 1927
Lock, spring for coach doors	Peter Alverson	New Haven, Ct	April 2, 1838
Lock, wagon	George Divan	Franklin co., Pa	
Lock, wagon	John M. Davidson	Brownsville, Pa	
Lock, wagon	Samuel Jones	Bridgeport, Pa	
Mail coaches	Bazil B. Pleasants Simeon Draper	Brookville, Md Brookfield, Mass	
Manil stages	Daniel W. Eames	Waterton, N. Y	
Mode of retarding the runners of	- •		1
sieds in descending inclinations.	John Du Bois, jr	Cascade, Pa	
Poles, and lead bars	W M C Cuchman	Uniontown, Pa	
Railroads	John Elgar	Albany, N. Y Brookfield, Mass	
Railway, atmospheric	James Pilbrow	Tottingham, Eng	July 26, 1845
Sleds, hold back for	James Andrews	Camden, Maine	Feb. 16, 1837
Sleds, for transporting ice in blocks Sleigh	Nathaniel J. Wyeth	Cambridge, Mass	Dec. 1 1846
SleighSleigh	Jac. Fisher	Kennehec Maine	Jan. 19, 1811
5			200. 30, 1020

14 *Disclaimer by Nyman & Edwards, June 29, 1839 ‡ Add'l imp., July 1, 1844; remened June 13, 1844.

j Antedated Aug. 19, 1840. # Date of foreign patent, May 17, 1844

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ADVENIENCE OR DISCOURAGE.	PASSESSES. ·	RESIDENCE.	7470HOVED.
Sleighs	Daniel Carpenter	Nelson, M. Y	Sept. 20, 100
Maigha	Moses Miller	Fort Ann, N. Y	July 28, 184
Sleighs, connecting the body with		Auban N V	Ma- 5 104
the runner	Theodore R. Timby Abijah Wilder	Auburn, N. Y	May 7, 184
Heigh runners, cast iron	Nath'el Benedick, jr.,	New Hampshire	Dec. 14, 179
	Abel Benedick, and		
	Asabel A. Hotchkise		Feb. 10, 166
leigh runner, metallic	Araunah Spear	Braintree, Vt	May 25, 184
leigh runners, to wheel carriages,		Now Vouls sism	S 10 10
attaching	Henry G. Guyon Seneca Pettee	New York city Salisbury, Conn	Sept. 13, 160 Oct. 1, 160
leigh shoes, cast iron	Edward Trask	Sangerfield, N. Y	Oct. 6, 182
leigh shoes, cast iron	Ichabod Arnold	Oswegatchie, N.Y	Mar. 19, 189
leigh shoes, cast iron, double			
grooved	LotBrees & Ezra Brees	Luzerne county, Pa.	Feb. 10, 1834
leigh shoes, cast iron, on wrough		Marking N V	Esh 7 1016
eigh shoes, steel plated	Sylvanus Tousley Sermon Hunt	Manlius, N. Y Canaan, Conn	Feb. 7, 181 Dec. 30, 164
leigh sleds, shoeing	William Barton	New York	Dec. 13, 183
leighs or sleds, mode of locking.	John C. Rickey	New Cumberland, O.	
eigh, traverse	Levi Rogers	Berwick, Mass	Feb. 4, 1907
eigh, traverse	Bela Markham	Burlington, Vt	July 10, 1984
plinter bar, and swingle-trees	Henry Dunlap	Georgetown, D. C	April 28, 1997
oring-brace, for carriages orings, carriage	R. B. Brown	Dimock, Pa Essex, Vt	Sept. 7, 1944 Dec. 14, 1941
orings for carriages	Jonathan Bacon	Bedford, Mass	Mar. 9, 186
rings, carriage	William King and H.		
	_ Salisbury	Hartford, Ct	Aug. 29, 1805
rings, carriage	Enoch Ives and Jerry		
wines en mines	Hill	New Haven, Ct	June 3, 1899
orings, carriage orings, carriage	Rd. Humphreys and J.	New Haven, Ct	June 17, 1 00 0
g-, g	C. Humphreys	Cantwell's Bridge, D.	April 22, 1814
pringe, carriage	Michael H. Burnwill.	Canterbury, Del	Nov. 17, 1888
orings, carriage	George N. Reynolds	Charleston, S. C	April 30, 1619
prings, carriage	Lemuel H. Parsons	Stockbridge, Mass.	June 23, 1894
prings, carriage prings, carriage	Joshua Cone Henry Pace, sen	Reading, Conn Cincinnati, Ohio	Aug. 96, 1906 Oct. 14, 168
prings, carriage	Newel Hungerford	Ithaca, N. Y	Mar. 31, 1880
orings, carriage	William Patton	Towanda, Pa	Jan. 9, 1898
orings, carriage	William Sharp	Burdett, N. Y	
orings, carriage	Elbridge G. Woodside		
rings, carriage rings, carriage	George B. Robinson Remember Baker, ex-	Pawlet, Vt	Oct. 3, 1636
inge, carrage	ecutor of Stan. Baker	Elba, N. Y	Inne 19, 1838
ringe, carriage, and attaching		2.00.	Julio 10, 1000
carriage bodies to them.	Wallace	Brooklyn, N. Y	Oct. 6, 1696
orings, carriage, and attaching	D 11 4 30		T 0.1000
carriage bodies to them	David A. Morton	Groton, N. Y	Jan. 9, 1839
prings, carriage, and attaching carriage bodies to them.	J. Jones, Alian Eelis. and HoraceGriswold	Delaware co. N. Y	Terler 16, 1936
prings, carriage, elliptic	Melzar Tuells	Delaware co., N. Y. Pen Yan, N. Y	July 9, 1608
orings, carriage, gig, connect-			
ing	Amos Davis	Easton, Md	
prings, carriage, leaves of steel	Micah Seabury	New York	April 29, 1839
pringe, carriage, manner of ap-	John S. Toneh	Reltimore Md	Tuge & 1948
plying prings, carriage, main	John S. Tough Jonathan Mix		
orings, carriage, radroad cars	Porter Hill	Veteran, N.Y	Nov. 25, 1837
prings, carriage, steel, edging and			
drawing	George Stondinger	Newark, N. J	Jan. 11, 1831
prings, carriage, steel, elliptical.	Charles Hinkle	Lehigh county, Pa.	NOV. 12, 1834
prings, carriage, spiral, folding	James Armour, jr	Balumore, Md	June 21, 1000

AMERICANO OR ENGLAPERADO.	PATRIMARIA.	hallmares.	
Springs, elliptical, for carriages	Frankling Hatch and		
	Jonathan W. Terry.	SouthCortlandt, N.Y.	
Springs, elliptical, for carriages	Sumper King	Connecticut	
Springs, elliptical	David A. Edwards	Boston, Mass	Nev. 16, 1841
Springs, elliptical, forming the			
sockets of	William T. Richards.	Poultney, Vt	Nov. 16, 184
Springs, elliptical, setting and fit-			
_ ting	George J. Neveil	Philadelphia, Pa	Sept. 20, 183
Springs and levers to sustain the		m 1 37 37	T 1 00 101
body of wagons	Elihu Ring	Trumansburg, N. Y.	
Springs, for locometives	Johannes Oberhausser		
Springe, pneumatic, piston of *	Alexander Connison.	Belleville, N. J	
Springs for railroad carriages	Patrick Riley	Shamokin, Pa	
Springs for railroad carriages	William Duff	Baltimore, Md	Jan. 9, 184
Bprings, railroad cars, in which at-	Levi Bissell	Newsel N I	Oct 11 184
mospheric air is employed Springs for railroad cars	James Milholland	Newark, N. J Baltimore, Md	
Springs for railroad cars		Baltimore, Md	
Springs for railroad cars †	Fowler M. Ray	Catskill, N. Y	
Springs, rollers, for pleasure wa-		0	, 200
gons	John Barton, jr	Providence, R. I	Sept. 9, 189
Springs for railroad truck	Joseph F. Tolson	Jersey City, N. J	
Spring seat, for carriages	Jonathan Nichols	Providence, R. I	
Spring seat, for wagons	Schuyler Reynolds	New York	
Springs, setting	David C. Andrews	Westmoreland, Pa	
Springs, spiral, to elliptical or bow			
for carriages	William Creasdale	Hartsville, Pa	Feb. 3, 183
Springs, steel, for carriages	Lyman Gleason	Stafford, N. Y	
Springs, thorough brace	Jonathan Mix	New Haven, Conn	
Springs, thorough brace		Baltimore, Md	
Springs, traverse	Nathan A. Stoddard	Pawlet, Vt	
Springs, wagon		Colchester, Conn	Nov. 4, 189
Springs, wagon		Ashford, Conn	
Springs, wooden		Wilmington, Del	
Springs, wooden			
Springs, wooden		Philadelphia, Pa	
Springs, wooden			
Springs, wooden	James Clark	Kent county, Del.	
Springs, wooden, horizontal			
Steps for coaches	George Carter		
Steps for coaches		Newark, N. J	Dec.' 31, 183
Sulkey seat			T 02 101
Tire, bending	Barton, jr	Shaftsbury, Vt	Jan. 23, 183
THE, beliefing	Charles Cooper and Abraham Tustin		9
Tire, bending		Ashford, Conn	
Tire, bending	Waiter Janes	Ashford, Conn	
Tire, bending			. July 14, 185
and committees	Hinckley	Cobleskill, N. Y	Mar. 26, 18
Tire, bending	Thomas C. Barton	New York city	
Tire, bending	Joseph Meredith	Lebanon, Pa	
Tire, bending			
Tire, bending, hoops			
Tire, bending hoops and bands	Daniel Shepardson		Feb. 7. 18
Tire, and carriage springs, machine		1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
for bending	Fowler M. Ray	Catakill, N. Y	Dec. 24, 18
Tire, and hoops, punching and	1	1 .	1
bending	William Hinds	Springfield, N. Y	Mar. 7. 18
Tire, putting on the wheels on rail			1
road cars	Thomas Banks	Great Britain	. Aug. 25, 18
Tires, setting upon wheels			Dec. 12, 18
		1	
Tire, for wheels	James H. Rogers	Mount Morris, N. Y	. Feb. 17, 18
		Mount Morris, N.Y	. Feb. 17, 18

^{*} Antedated Dec. 20, 1841.

[†] Released Sept. 25, 1840, and June 8, 1841.

enumentions or discovering,	Pat entus .	R.Daipinkton.	wenter contrad.
Fire, for wheels, drilling	Thomas C. Barton	New York	July 31, 188
Fransporting and conveyance ma-			,,
_ chine	John J. Reekers	Baltimore, Md	July 21, 1826
Fransporting weights	James Cornell	Brookfield, Vt	Dec. 24, 182
Fruck, double cylinder, for raising		337-41 343	A 00 100
Stone		Waterloo, Md	Aug. 23, 183
Fruck, for railroads Fruck, railroad	Fowler M. Ray John F. Rodgers	New York Troy, N. Y	
Velocipede	Wm. K. Clarkson, jr.	New York	June 26, 181
Velocipede, chiro		Providence, R. I	Nov. 1, 182
Velocity on railroads	Jacob Nollner	Washington, D. C	
Wagon	Shermon Blair	New Haven, Conn	
Wagon bodies, raising & lowering	Thomas Scott	Loudon, Pa	
Magon boxes, moulds for casting		Northampton, Pa	
Wagons and other carriages Wagons, carts, &c., attaching box-		Greenwich, N. Y	
es to	Jason C. Osgood	Chittenango, N. Y.	Sept. 28, 1839
Wagons, coaches, and breaks for .	Henry West	Quincy, Mass	Sept. 29, 183
Wagon, hand	John Bolton, jr	New York	Sept. 29, 180 Jan. 11, 183
Wagon, hanging	Henry Mellish James Bowman	Coosauwatchie, S.C.	
Wagon, for removing earth		Baltimore, Md	Aug. 27, 189
Wagons and sleighs, drawing		Springwater, N. Y	Sept. 5, 1846
Wagon, tilting		Braintree, Mass	Feb. 17, 1807
Wagon, tilting	Stephen Beebe	Norwich, Ct	June 22, 1830
Wagon, or other wheeled vehicles	Elisha Brown	Stockbridge, Mass	Jan. 23, 1834
Wagon, or other wheeled vehicles		Albion, N. Y	July 22, 183
Wheels	John Coon	Granville, N. Y	
Wheels	M. Hunt & C. White.	Hartford, Mass	June 15, 1813
Wheels	Bracket L. Greenough	l 	
Wheels	John Whitaker	Dingman's Ferry, Pa	
Wheels Wheels	William Cooper George D. Bridgman.	Columbia, S. C	Mar. 3, 1832 July 16, 1822
Wheels, apparatus to prevent fall-		New Haven, Ct	July 10, 1000
ing when axletree breaks	Wm. Zollickoffer	Middleburg, Md	April 30, 183
Wheels and axles	Aaron Hale	Boston, Mass	April 2, 1835
Wheels and axles of locomotive			,
engines, & rails adapted to them		New York	Nov. 13, 1839
Wheels, boring hubs & felloes for	David Sperry	Colchester, Ct	May 12, 1819
Wheels, boxes for	Thos. B. Whitlock	New Jersey	Feb. 23, 1802
Wheels, boxes for	James Gredley	Boston, Mass	May 23, 1806
Wheels, boxes for	Levi Brown	Berkshire, Mass	May 30, 1806
Wheels, boxes for	John Nicholson	Herkimer, N. Y	April 28, 1810
Wheels, boxes, and axles of car			
riage, applying anti-friction rollers to	George G. Tibbets	New York, N. Y	July 22, 183
Wheels, boxes for axletrees and		10w 10ik, 10. 10.	1
gudgeons*	Isaac Babbitt	Boston, Mass	July 17, 1836
Wheels, boxes, anti-friction roller		Baltimore, Md	Sept. 11, 1817
Wheels, boxes, and axletrees for		Salisbury, Ct	June 14, 188
Wheels, boxes, and axletrees	. William Batchelor	New York	May 2, 1816
Wheels, boxes, casting	. Calvin Darby	Worcester, Mass	Jan. 22, 1835
Wheels, boxes, casting	. William Butler and E	·	7. 01 1022
\$871. 1. 1	B. Rice	Worcester, Mass	May 31, 183
Wheels, boxes, cast iron	Jer. Wilts	onamoersburg, Pa	1500. 20, 104
Wheels, boxes, cast or wrough	Culliman Damalda	Children N V	June 13, 182
iron	Sullivan Reynolds		100
Wheels, boxes, fitting to	J. & C. Putnam Orlando A. Fuller		
Wheels, boxes, letting in Wheels, boxes, retaining	Henry Barton		
Wheels, boxes, self-fastening	Thomas Mussey		June 11, 1825
	- I TOTAL OF THE OFFICE A		
Wheels, boxes, setting	. Josiah Chanev.		1006 20, 200
Wheels, boxes, setting Wheels, boxes, for wood or iro to turn in	n	1]

^{*} Additional improvement, Sept. 4, 1849; disclaimer, Aug. 6, 1840.

Wheels, car. and nabe, and hanging coach bodies. Wheels, car. Alexander Small. Wheels, car. Small. Wheels, car. Small. Wheels, car. Cast iron. Wheels, car, constructing. Wheels, car, constructing. Wheels, car, for curred railroads. Wheels, car, iron. Wheels, for carriages. Wheels, carriages. Wheels, carriage, iron. Carriage. Wheels, carriage, iron. Wheels, carriage, iron. Wheels, carriage, iron. Wheels, carriage, iron. Carriage. Wheels, carriage, iron. Carriage. Wheels, carriage, iron. Carriage. Wheels, carriage, iron. Carriage. Carriag				
Wheels, car. Wheels, car. Wheels, car. Wheels, car. Wheels, car. Wheels, car. Wheels, car, cast iron. Wheels, car, constructing. Wheels, car, constructing. Wheels, car, iron. Wheels, or carriages. Wheels, for carriages. Wheels, for carriages. Wheels, for carriages. Wheels, for carriages. Wheels, carriage, and harness. Wheels, carriage, immersing in water after putting on the hoop of uire. Wheels, carriage, mostification. Wheels, carriage, preventing hore of from running away. Wheels, carriage, preventing hore of from running away. Wheels, carriage, preventing hore of from running away. Wheels, carriage, onstired on the hoop of uire. Wheels, carriage, on the hoop of uire of the felloes. Wheels, carriage, for comotive engines. Wheels, carriage, on the hoop of uire of the felloes. Wheels, carriage, for comotive engines. Wheels, carriage, on the hoop of uire of the felloes. Wheels, carriage, for carriages. Wheels, carriage, for carriages. Wheels, carriage, for carriages. Wheels, carriage, for carriage. Wheels, carriage, for carriages. Wheels, carriage, on the hoop of uire of the felloes. Wheels, carriage, for carriage. Wheels, carriage, for carriag	HARRAMONE OF PHOCASTERS.	PAYMNYMMO.	RECEDENCE.	WHISH STUED.
Wheels, car. Wheels, car and carriage, chilling Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, constructing. Wheels, car, constructing. Wheels, car, drilling and boring. Wheels, car, iron. Wheels, car, iron. Wheels, for carriages. Wheels, carriage, hab-bands for. Wheels, carriage, hab-bands for. Wheels, carriage, hab-bands for. Wheels, carriage, hab-bands for. Wheels, carriage, preventing horse afform running away. Wheels, carriage, for railroad. Wheels, carriage, for railroad. Wheels, carriage, or railroad. Wheels, carriage, or for locomotive engines. Wheels, carriage, or for locomotive ongines, increasing the adhesion. Wheels, carriage, or for locomotive ongines, increasing the adhesion. Wheels, cartinge, wought iron. Wheels, cartinge, wought iron. Wheels, cartinge, wought iron. Wheels, cartinge, wought iron. Wheels, cast iron, for locomotive ongines, increasing the adhesion. Wheels, cast iron, for locomotive ongines, increasing the adhesion. Wheels, diving, of locomotive ongines, increasing the adhesion. Wheels, felloes, bending by steam engines. Wheels, felloes, cutting & dressing wheels, fello	Wheels, boxes, and hubs, and			
Wheels, car and carriage, chilling Wheels, car, cast iron	hanging coach bodies	David Watson	Fayette, Mass	May 29, 1832
Wheels, car and carriage, chilling Wheels, car, cast iron. Wheels, car, drilling and boring. Wheels, car, iron. Wheels, car, iron. Wheels, car, iron. Wheels, for carriages. Wheels, for carriages. Wheels, for carriages. Wheels, for carriages. Wheels, carriage, and harness. Wheels, carriage, and harness. Wheels, carriage, and harness. Wheels, carriage, and harness. Wheels, carriage, fully iron. Wheels, cast iron, railroad. Wheels, cast iron, railroad. Wheels, cast iron, for locomotive engines. Wheels, cast iron, railroad. Wheels, cast iron, for locomotive engines. Wheels, felloes, bending. Wheels, felloes, bending. Wheels, felloes, cutting & dressing whe	Wheels, car	Alexander Small	York, Pa	Dec. 10, 1846
Wheels, car and carriage, chilling Wheels, car, cast iron. Wheels, car, drilling and boring. Wheels, car, iron. Wheels, car, iron. Wheels, car, iron. Wheels, for carriages. Wheels, carriage, and harness. Wheels, carriage, and harness. Wheels, carriage, and harness. Wheels, carriage, and harness. Wheels, carriage, fellows, bending water after putting on the hoop or tire. Wheels, cartiage, iron. Wheels, cartiage, fellows, bending water after putting on the hoop or tire. Wheels, cast iron, railroad. Wheels, cast iron, for locomotive stam engines. Wheels, cast iron, for locomotive engine and for the fellows, driving, of locomotive stam engines. Wheels, cast iron, for locomotive engines, increasing the adhesion. Wheels, deloes, bending wheels, cast iron, for locomotive engines, increasing the adhesion. Wheels, felloes, cutting and the inside of the felloes, cutting de dressing wheels, felloes, cutting de dres		Fowler M. Ray	New York, N. Y	Dec. 17, 1846
Wheels, car, cast iron	Wheels, car	David Cockley	Lancaster, Pa	Oct. 21, 1839
Wheels, car, cast iron. Wheels, car, cost iron. Wheels, car, cost iron. Wheels, car, constructing. Wheels, car, drilling and boring. Wheels, car, iron. Wheels, for carriages. Wheels, carriage, and harness. Wheels, carriage, and harness. Wheels, carriage, immersing in water after putting on the hoop or tire. Wheels, carriage, remachine. Wheels, carriage, remachine. Wheels, carriage, remachinery for sharpening the adhesion. Wheels, carting, of locomotive engines. Wheels, folloes, cutting & dressing. Wheels, felloes, cutting & dressing. Lancaster, Pa. Warting, Pa. Warrindon, Pa.	Wheels, car and carriage, chilling	Phineas Davis		July 29, 1834
Wheels, car, cast iron. Wheels, car, cast iron. Wheels, car, constructing. Wheels, car, constructing. Wheels, car, for curved railroads. Wheels, car, iron. Wheels, for carriages. Wheels, for carriages. Wheels, for carriages. Wheels, carriage, and harness. Wheels, carriage, and harness. Wheels, carriage, immersing in water after putting on the hoop or tire. Wheels, carriage, wrought iron. Wheels, carriage, revenuing horses from running away. Wheels, carriage, revenuing horses from running away. Wheels, carriage, wrought iron. Wheels, felloes, bending. Wheels, felloes, bending. Wheel	Wheels, car, cast iron	Henry Morey	Beaver Meadow, Pa	Mar. 10, 1838
Wheels, car, cast iron	Wheels, car, cast iron	Bush, and George B		
Wheels, car, cast iron. Wheels, car, constructing	Wheels, car, cast iron	Samuel Truscott, Geo.		
Wheels, car, constructing		Dougherty		Mar. 17, 1838
Wheels, car, constructing	Wheels, car, cast iron	Wm. W. Bergstresser	Harrisburg, Pa	Jan. 11, 1846
Wheels, car, iron	Wheels, car, constructing	Albert Fuller	Providence, R. I	Oct. 14, 1846
Wheels, car, iron	Wheels, car, for curved railroads.	Abel Look	Waterford, N. Y	Dec. 31, 1833
Wheels, car, iron	Wheels, car, drilling and boring	Dean Walker	Gunpowder, Md	Dec. 28, 1832
Wheels, for cars, railroad, and engine Wheels, for carriages Wheels, carriage, construction of Wheels, carriage, hub-bands for Wheels, carriage, hub-bands for Wheels, carriage, hub-bands for Wheels, carriage, hub-bands for Wheels, carriage, preventing horses from running away Wheels, carriage, preventing horses from running away Wheels, carriage, proventing horses from running away Wheels, carriage, for railroad Wheels, carriage, for railroad Wheels, carriage, for railroad Wheels, carriage, of oloomotive engines, increasing the adhesion Wheels, driving, of looomotive engines, increasing the adhesion Wheels, felloes, bending Wheels, felloes, bending Wheels, felloes, bending Wheels, felloes, bending Wheels, felloes, cutting machine Wheels, felloes, cutting machine Wheels, felloes, cutting machine Wheels, felloes, cutting machine Wheels, felloes, cutting de dressing Wheels, fello	Wheels, car, iron	William W. Pennell	Lancaster, Pa	Feb. 8, 1839
wheels, for carriages	Wheels, car, locomotive engine	Ress Winans	Baltimore, Md	Nov. 19, 1833
Wheels, for carriages. Wheels, carriage, and harness. Wheels, carriage, hub-bands for. Wheels, carriage, hub-bands for. Wheels, carriage, immersing in water after putting on the hoop or tire. Wheels, carriage, preventing horses from running away. Wheels, carriage, wrought iron. Wheels, carriage, wrought iron. Wheels, cast iron, for locomotive steam engines, increasing the adhesion. Wheels, driving, of locomotive engines, increasing the adhesion. Wheels, felloes, bending. Wheels, felloes, bending. Wheels, felloes, cutting & dressing Wheels, felloes, cutting machine. Wheels, felloes, cutting & dressing Wheels, f		James Stimpson	Baltimore, Md	Oct. 23, 1834
Wheels, for carriages	Wheels, for carriages	Joel Eastman and Guy		
Wheels, for carriages		C. Rix	Bath, N. H	Dec. 23, 1836
Wheels, for carriages	Wheels, for carriages	Isaac Van Gorder	Warren, Ohio	Jan. 7, 1833
Wheels, for carriages		Henry Beebe	Haverstraw, N. Y	Mar. 12, 1834
Wheels, for carriages*	Wheels, for carriages		Hartford, Ct	Dec. 27, 1839
of	Wheels, for carriages*	G. L. Ackerman	Troy, N. Y	April 16, 1845
Wheels, carriage, and harness. Wheels, carriage, imbebands for Wheels, carriage, immersing in water after putting on the hoop or tire Wheels, carriage, preventing horses from running away. Wheels, carriage, for railroad. Wheels, carriage, wrought iron. Wheels, carriage, wrought iron. Wheels, cart and carriage. Wheels, cart iron, for locomotive stam engines. Wheels, cast iron, railroad. Wheels, driving, of locomotive engines, increasing the adhesion. Wheels, fiving, of locomotive engines, increasing the adhesion. Wheels, felloes, bending. Wheels, felloes, bending. Wheels, felloes, cutting the inside of the felloes. Wheels, felloes, cutting machine. Wheels, felloes, cutting the dressing wheels, felloes, cutti	of	Eliphalet S Scripture.	Syracuse, N. Y	April 1, 1845
Wheels, carriage, hub-bands for Wheels, carriage, immersing in water after putting on the hoop or tire		George Barnant	Washington, D. C.	May 25, 1838
Wheels, carriage, immersing in water after putting on the hoop or tire				June 11, 1839
wheels, carriage, preventing horses from running away Wheels, carriage, for railroad Wheels, carriage, for railroad Wheels, carriage, wrought iron Wheels, carriage for railroad Wheels, cast iron, for locomotive stam engines. Wheels, cast iron, railroad Wheels, cast iron, railroad Wheels, driving, of locomotive engines, increasing the adhesion Wheels, driving, of locomotive engines, increasing the adhesion Wheels, felloes, bending Wheels, felloes, bending Wheels, felloes, bending by steam Wheels, felloes, bending by steam Wheels, felloes, cutting and the inside of the felloes. Wheels, felloes, cutting and dressing Wheels, felloes, cutt	Wheels, carriage, immersing in			·
Wheels, carriage, for railroad Wheels, carriage, wrought iron. Wheels, cart and carriage Wheels, cast iron, for locomotive steam engines. Wheels, cast iron, railroad Wheels, cast iron, railroad Wheels, cast iron, railroad Wheels, cast iron, railroad Wheels, driving, of locomotive engines, increasing the adhesion Wheels, driving, of locomotive engines, increasing the adhesion Wheels, "easy motion, and pavement saving" Wheels, felloes, bending Wheels, felloes, bending Wheels, felloes, bending by steam Wheels, felloes, cutting machine Wheels, felloes, cutting machine Wheels, felloes, cutting & dressing Wheels, felloes, cutting & dress	Wheels, carriage, preventing hors-	James Morris	Bloomfield, N. J	Sept. 23, 1843
Wheels, carriage, for railroad Wheels, carriage, wrought iron. Wheels, cart and carriage Wheels, cast iron, for locomotive steam engines. Wheels, cast iron, railroad Wheels, cast iron, railroad Wheels, cast iron, railroad Wheels, confining carriage to Wheels, driving, of locomotive engines, increasing the adhesion. Wheels, driving, of locomotive engines, increasing the adhesion. Wheels, fieloes, bending Wheels, felloes, bending Wheels, felloes, bending Wheels, felloes, carriage, machinery for sharpening the inside of the felloes, catting & dressing wheels, felloes, cutting	es from running away	Russell Jarvis	Boston, Mass	Mar. 29, 1834
Wheels, cast iron, for locomotive steam engines. Wheels, cast iron, railroad Wheels, confining carriage to Wheels, confining carriage to Wheels, driving, of locomotive engines, increasing the adhesion Wheels, driving, of locomotive engines, increasing the adhesion Wheels, "easy motion, and pavement saving" Wheels, felloes, bending Wheels, felloes, bending Wheels, felloes, bending by steam Wheels, felloes, carriage, machinery for sharpening the inside of the felloes, cutting and machine Wheels, felloes, cutting and dressing which will will be seen. Clark Force Boston, Mass April 28, 18	Wheels, carriage, for railroad	Robert Grant	Baltimore, Md	Nov. 3, 1838
Wheels, cast iron, for locomotive steam engines. Wheels, cast iron, railroad Wheels, confining carriage to Wheels, driving, of locomotive engines, increasing the adhesion Wheels, "easy notion, and pavement saving" Wheels, felloes, bending Wheels, felloes, bending by steam Wheels, felloes, carriage, machinery for sharpening the inside of the felloes, cutting and the control of the felloes, cutting and machine. Wheels, felloes, cutting and machine. Wheels, felloes, cutting and machine. Wheels, felloes, cutting and machine. Wheels, felloes, cutting and machine. Wheels, felloes, cutting and machine. Wheels, felloes, cutting and machine. Wheels, felloes, cutting and machine. Wheels, felloes, cutting and pavement saving" Wheels, felloes, cutting and machine. Wheels, felloes, cutting and pavement saving Wheels, felloes, cutting and pavement saving Wheels, felloes, cutting and machine. Wheels, felloes, bending cutting and pavement saving Wheels, felloes, cutting and pavement saving Wheels, felloes, cutting and machine. Wheels, felloes, cutting and pavement saving Wheels, felloes, cutting and resisting Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dressing Wheels, felloes, cutting and dr	Wheele, carriage, wrought iron	James McCullum	Wilsonville, Ala	May 10, 1844
wheels, cast iron, railroad Wheels, cast iron, railroad Wheels, confining carriage to Wheels, driving, of locomotive engines, increasing the adhesion Wheels, driving, of locomotive engines, increasing the adhesion Wheels, "easy motion, and pavement saving" Wheels, felloes, bending by steam Wheels, felloes, cutting machine Wheels, felloes, cutting machine Wheels, felloes, cutting & dressing Wheels, f	Wheels, cart and carriage	William Woodbridge.	Kennebec, Me	May 17, 1836
wheels, cast iron, railroad Wheels, cast iron, railroad Wheels, confining carriage to Wheels, driving, of locomotive engines, increasing the adhesion Wheels, driving, of locomotive engines, increasing the adhesion Wheels, driving, of locomotive engines, increasing the adhesion Wheels, "easy motion, and pavement saving" Wheels, felloes, bending Wheels, felloes, catting machine Wheels, felloes, cutting machine Wheels, felloes, cutting dressing wheels, felloes, cut	Wheels, cast iron, for locomotive	Thatcher Perkins and		
Wheels, driving, of locomotive engines, increasing the adhesion. Wheels, driving, of locomotive engines, increasing the adhesion. Wheels, "easy motion, and pavement saving". Wheels, felloes, bending. Wheels, felloes, bending. Wheels, felloes, bending by steam Wheels, felloes, carriage, machinery for sharpening the inside of the felloes, cutting machine. Wheels, felloes, cutting addressing wheels, felloes, cutting addressi		William Mahon	Boston, Mass	April 10, 1843
Wheels, driving, of locomotive engines, increasing the adhesion. Wheels, files, driving, of locomotive engines, increasing the adhesion. Wheels, files, driving, of locomotive engines, increasing the adhesion. Wheels, files, bending. Wheels, files, bending. Wheels, files, bending. Wheels, files, bending by steam Wheels, files, bending by steam Wheels, files, files, make in side of the files. Wheels, files, cutting machine. Wheels, files, cutting dressing wheels,	Wheels, cast iron, railroad	Ebenezer A. Lester	Boston, Mass	Aug. 10, 1844
Wheels, driving, of locomotive engines, increasing the adhesion. Wheels, driving, of locomotive engines, increasing the adhesion. Wheels, frequency increasing the adhesion. Andrew M. Eastwick. Philadelphia, Pa Nov. 20, 18 Wheels, felloes, bending. Tristam Kimball. Salem, N. H Jan. 16, 18 Wheels, felloes, carriage, machinery for sharpening the inside of the felloes. Robert Hugh Henry of the felloes, cutting machine. Wheels, felloes, cutting addressing wheels, f			Baltimore, Md	April 28, 1836
gines, increasing the adhesion Andrew M. Eastwick. Wheels, "easy motion, and pavelement saving"	Wheels, driving, of locomotive en-	Ezra L. Miller	Charleston, S. C	June 19, 1834
Meels, felloes, bending Wheels, felloes, bending Wheels, felloes, bending by steam Wheels, felloes of carriage, machinery for sharpening the inside of the felloes Wheels, felloes, cutting machine Wheels, felloes, cutting machine Wheels, felloes, cutting dedressing wheels, felloes, cutting dedressing wheels, felloes, cutting dedressing wheels, felloes, cutting dedressing by the control of the felloes of carriage, machine Wheels, felloes, cutting dedressing wheels, felloes, cutting dedressing by the control of the felloes, cutting dedressing by the control of the felloes of carriage, machine Robert Hugh Henry bear of the felloes of carriage, machine W. Bradley and M. L. Worthley Samuel Church Samuel Church Amherst, Mass April 25, 18 Amherst, Mass April 25, 18 Lebanon, N. H Dec. 22, 18	gines, increasing the adhesion .	Andrew M. Eastwick.	Philadelphia, Pa	Nov. 20, 1837
Wheels, felloes, bending	Wheels, "easy motion, and pave-			• • • • • • • • • • • • • • • • • • • •
Wheels, felloes, bending	ment saving"			July 20, 1831
Wheels, felloes of carriage, machinery for sharpening the inside of the felloes	Wheels, felloes, bending			
Wheels, felloes of carriage, machinery for sharpening the inside of the felloes				July 17, 1836
of the felloes	Wheels, felloes of carriage, machi-	-	Canaan, Ct	July 29, 1829
Wheels, felloes, cutting machine W. Bradley and M. L. Worthley	of the felloes	Robert Hugh Henry .	Barre, Mass	Nov. 21, 1842
Wheels, felloes, cutting & dressing Samuel Church Philips, Me Oct. 14, 18 Wheels, felloes, cutting & dressing Joseph Goulding Leicester, Mass Feb. 28, 18 Wheels, felloes, cutting & dressing B. L. Greenough Lebanon, N. H Dec. 22, 18		J. Barker	Philips, Me	Oct. 14, 1835
Wheels, felloes, cutting & dressing Joseph Goulding Leicester, Mass Feb. 28, 18 Wheels, felloes, cutting & dressing B. L. Greenough Lebanon, N. H Dec. 22, 18		Worthley	Philips, Me	Oct. 14, 1835 April 25, 1810
Wheels, felloes, cutting & dressing B. L. Greenough Lebanon, N. H Dec. 22, 18				
			Lebenon, N. H.	Dec. 99, 1894
Wheels, felloes, sawing Pheebe Collier, widow of James Catskill, N. Y May 20, 18		Phœbe Collier, widow		

^{*} Autodated Oct. 16, 1844.

INVENTIONS OR DISCOVERIES.	PATĖNTEES.	mindence.	WHEN HERED.
Wheels, felloes, sawing	Barnabas Ruggles	Poultney, Vt	Jane 29, 188
Wheels, felloes, sawing	George Andrews	Tolland, Ct	Oct. 94, 189
Wheels, felloes, sawing	Samuel Fahrney	Washington, Md	Dec. 9. 10
Wheels, felloes, sawing	Alvan Colby	Sharon, Vt	Oct. 15, 368
Wheels, felloes, sawing	David D. Hanson	Ware, N. H	Oct. 20, 3000
Wheels, felloes, sawing or cutting		Amheret, Mass	May 4, 1885
Wheels, felloes, sawing or cutting		New York	Dec. 21, 1889
Wheels, felloss, sawing & boring.	James Hamilton	New York	April 29, 3663
Wheels, felloes, sawing & boring. Wheels, friction, for railroad car-	William W. Forward.	Abingdon, Md	Nov. 19, 1833
riages	H. B. Chew	Baltimore, Md	April 9, 1889
Wheels, horse, detaching	Philip T. Share	Baltimore, Md	Mar. 18, 1836
Wheel hubs	Garretson Lyon	New York	Dec. 28, 1826
Wheel hubs	Heroules Thomas	Middleborough, Mas	
Wheel hubs	John Atherton	Philadelphia, Pa	June 2, 1836
Wheal hubs*	Howard Delano	Skaneateles, N. Y	Oct. 28, 1857
Wheel hubs and axles for cars,			_
cutting the seats	Thomas J. Butler	Johnstown, Pa	Dec. 31, 1889
Wheel hubs, and axletrees	Phineas Slayton	Lockport, N. Y	Oct. 27, 1888
Wheel hubs, bands for	Samuel H. Miller	Elizabethtown, N. J.	Oct. 7, 1890
Wheel hubs, bands for, carriage		Dhiladalahia Da	Toma 10 1004
Or gig	Christian Cornelius	Philadelphia, Pa Washington, D. C	June 18, 1884 Jan. 23, 1826
Wheel hubs, blocks, bushing Wheel hubs, boring	T. & D. Curtis James Hinds	Troy, N. Y	Nov. 25, 1837
Wheel hubs, boring and mortising		Martinsburg, N. Y.	Mar. 31, 1834
Wheel hubs, boring and mortising		Conesville, N. Y	Oct. 6, 1837
Wheel hubs, boring on the inside,		,	5, 255.
and the boxes for linch cups	John R. Morrison	Springfield, Ohio	May 13, 1894
Wheel hubs, boring and reaming.	Eben Johnson	Lex'tonHeights, N.Y	Nov. 7, 1896
Wheel hubs, boxes for, and ship's			
blockst	Isaac Cooper	Baltimore, Md	Jan. 27, 1830
Wheel hubs, box setter, for boring		C) 37.	0-4 10 1005
Miles have of one skilling	Edward Badlam, jr	Chester, Vt	Sept. 18, 1885
Wheel hubs, of ear, chilling Wheel hubs, carriage or wagon	Hopkin Thomas	Beaver Meadow, Pa. Vernon, N. Y	Oct. 13, 1838
Wheel hubs, carriage, attaching to	Abraham Randel	verion, in it	Sept. 8, 1887
the arms of axletrees	George Hunt	Prattsville, N. Y	July 8, 1839
Wheel hubs, carriage, attaching to	Good Limit		· · · · · · · · · · · · · · · · · · ·
axles	Jehn Loudon, jr	Auburn, N. Y	Oct. 12, 1839
Wheel hubs, carriage, greasing &	, ,	i	·
keeping dust out of the boxes of	Nothaniel C. Day	Lunenburg, Mass	July 10, 1840
Wheel hubs, carriage, securing the			
boxes to their axles.	Griffin R. Waring	Derby, Ct	June 17, 1840
Wheel hubs, cast iron	Benjamin Lyman	Manchester, Ct	Oct. 29, 1895
Wheel hubs, cast iron	Benjamin Lyman	Manchester, Ct Batavia, N. Y	Nov. 6, 1827
Wheel hubs, cast iron	William Dickinson		Oct. 11, 1888
Wheel hubs, cast iron	John Thruston Carver Washburn	Previdence, R. I Bridgewater, Mass.	Dec. 3, 1632 Jan. 18, 1683
Wheel hubs, cutting and boring	Carver Washburn	Diregowater, exam.	Jan. 20, 2000
the end to let in boxes	John B. Francis	Loudoun co., Va	Mar. 2, 1882
Wheel hubs, dividing and boring.	James B. Cleveland	Bergen co., N. J	June 7, 1880
Wheel hubs, and felloes, boring	David Sperry	Colchester, Ct	May 12, 1882
Wheel hubs, herculean carriage	Hercules Thomas	Medway, Mass	Feb. 8, 1988
Wheel hubs, lining metallic boxes			
for	Moses Palmer	Baltimore, Md	Mar. 9, 1844
Wheel hubs, mortising	Parvin Paullin	Darrtown, Ohio	April 17, 1833
Wheel hubs, pipe box for	James Jones	Galway, N. Y	April 1, 1845
Wheel hubs, and rotary bearings,	P Bish A T C C	Formation Ma	Non 14 1000
anti-friction boxes	E. Fisk & J. C. Green		Nov. 14, 1835-
Wheels, iron	Robert Crane, jr	Woodbury, Ct Baltimore, Md	May 4, 1895
Wheels, for locomotive carriages	John Finley		Mar. 1, 1890
and railroad cars	Matthias W. Beldwin.	Philadelphia, Pa	June 29, 1833-

^{*} Reissued Sept. 25, 1830.

Manhadin of Driverings'	PAT ENTIFS ,	randance.	чени жург о.
Wheels, of locomotives, assemding			
inclined planes.	Elisha Town	Montpelier, Vt	July 31, 1837
Wheels, of locomotive engines	Henry R. Dunham	New York	Feb. 15, 1838
Wheels, for railroad cars	John Baker	Lancaster, Pa	Mar. 20, 1835
Wheels, for railroad cars	George W. Eddy		Dec. 26, 1845
Wheels, for railroad carriages	John Elgar	Philadelphia, Pa	Nov. 19, 1833
Wheels, for railroad cars, const'ng		Kensington, Pa	Dec. 2, 1835
Wheels, for railroad cars, const'ng		Boston, Mass	Feb. 24, 1843
Wheels, for railroad cars and loco-		200000, 2222011111	- 00. 00, 000
motives	James Stimpson	Baltimore, Md	Oct. 23, 1834
Wheels, for railroad cars, to pre-			
vent friction	Samuel Krauser	Reading, Pa	Nov. 2, 1831
Wheels, for railroad carriages	James Stimpson		
Wheels, railroad, connecting and	James Sampson		
fastening the rims	Thomas Glasco	Wilmington, Del	April 4, 1846
Wheels, railroad, constructing	Henry Dircks		
Wheels, reaming out and setting		o.poo.,B	
boxes in	Eben Johnson	Lex'ton Heights, N.Y	Nov. 7, 1826
Wheels, reverting	Otis Paine	Foxborough, Mass .	
Wheels, spokes for	Daniel H. Wiswell	Petersham, Mass	
Wheels, spokes, cutting tenons on	Jona. Reynolds	Dutchess co., N. Y.	
Wheels, spokes, cutting tenons on	Andrew P. Smith	Cornwall, Ct	
Wheels, spokes, cutting tenons on	James Smith	Fayette, Me	June 7, 1832
Wheels, spokes, cutting tenons on	John Lenher	Cocalico town'p, Pa.	July 28, 1834
Wheels, spokes, cutting tenons on	William Gerrish	Portsmouth, N. H	July 21, 1835
Wheels, spokes, cutting tenons &		2 01 01 01 01 01	·,,
shoulders	Pitner Emmitt	Hopewell, Pa	June 29, 1833
Wheels, spokes, dressing	Daniel Wiswell	New York	Nov. 19, 1833
Wheels, spring, for carriages	Barney Ruggles	Warsaw, N.Y	Sept. 8, 1834
Wheels, tiring	Russell Hunt, 2d	Litchfield, Ct.,	Mar. 20, 1821
Wheelbarrows	Jeremiah Brainard	Rome, N. Y	Aug. 26, 1819
Wheelbarrows	Nathan Tufts, 2d	Charlestown, Mass.	Sept. 13, 1824
Wheelbarrows, horse	Jireh Rowley	Pittsford, N. Y	Nov. 1, 1825
Wheelwrights' assistant	John Sitton	Pendleton, S. C	Feb. 15, 1827
Wheelwrights' assistant	Cyrus W. Beach	Schoharie, N. Y	
Wheelwrights'labor sav'g machine		New York	

CLASS No. XI.

HYDRAULICS AND PNEUMATICS,

Including Water Wheels, Wind-mills, and other implements operated on by Air or Water, or employed in Raising and Delivery of Fluids.

LIST OF PATENTS.

CLASS XI.—HYDRAULICS AND PNEUMATICS, including Water-wheels, Windmilk.

and other implements operated on by Air or Water, or employed in raising and delivery of Fluids.

INVENTIONS OR DISCOVERIES.	Patentees.	RESIDENCE.	when issued.
Aerostats, or balloons, &c., direct-			
ing*	Muzio Muzzi	Bologna, Italy	Oct. 16, 1844
Air, action, for propelling boats.	James Black		July 24, 1838
Air, condensed, for propelling		Orangeville, O	July 24, 1000
boats, cars	Alexander McGrew	Cincinnati, Ohio	Oct. 27, 1835
Air pump in low pressure engines-	See Class 6.	Onicianat, Onic	Oct. 21, 1000
Air, rarified and unrarified, obtain-	, See State 5.		
ing power by	Samuel Morey	Philadelphia, Pa	April 8, 1812
Band, chain, with buckets	Stephen Belknap	New York	Dec. 28, 1809
Bellows	James Rumsey	Berkley county, Va.	Aug. 26, 1791
Bellows	James Drake	New Jersey	May 19, 1794
Bellows	Charles McMurtry	New Marlboro' Mas	
Bellows	Josiah J. Eddy	Providence, R. J	Sept. 9, 1825
Bellows	Jesse Dixon	Pittsburg, N. C	June 11, 1827
Bellows	Elijah Brady	Mount Pleasant, N Y	April 3, 1828
Bellows	Luna Bishop	Readsborough, Va	Dec. 22, 1881
Bellows	James Robe	Morgantown, Va	April 17, 1834
Bellows	George L. Dimpfel	New York	May 23, 1834
Bellows, double	William Lillie	Edwards, N. Y	June 24, 1845
Bellows, furnace	John W. Godfrey	Pennsylvania	May 25, 1803
Bellows, furnace	Henry Dotterer	Philadelphia, Pa	April 24, 1825
Bellows, hand	John Grennell	Springfield, Mass	Aug. 3, 1838
Bellows, japanned	R. B. Richardson	Philadelphia, Pa	Aug. 22, 1817
Bellows, nozzle, preventing burn-		·	T 04 1004
ing	James Dodge, jr	St. Albans, Vt	Jan. 24, 1824
Bellows, portable	Alexander Ewing	New York	Oct. 31, 1839
Bellows, pump, clastic piston	Henry Dotterer	Philadelphia, Pa	May 1, 1810
Bellows, pump, for forges	Henry Dotterer	Philadelphia, Pa	Feb. 16, 1869
Bellows, pump, for furnace	Isaiah Jennings	New York	Sept. 20, 1808
Bellows, rotary	Albin Savage and Her-	G	Nov. 24, 1848
Bellows, smiths'	vey Killam	Scottsville, N. Y	Mar. 28, 1818
Bellows, smiths' and furnace fires		Pomfret, N. Y Springfield, Ohio	Dec. 23, 1834
Bellows, steam	John Stevens	Bergen county, N. J.	Aug. 26, 1791
Bellows, steam.	Joel Eastman	Bath, N. H	April 8, 1831
Bellows, ateam	Martin Bell	Antes township, Pa.	April 24, 1838
Bellows, triangular, for foundaries		New York	April 4, 1829
Bellows, tub.	A. A. McPharrin	Huntingdon, Pa	June 11, 1829
Bellows, wooden	Benj. & John Tyler	Claremont, N. H	Feb. 1, 1817
Blowing wind for forges	Daniel Stobel	Washington, D. C.	May 9, 1831
Blow pipe, for furnace	J. Barker	Baltimore, Md	Feb. 12, 1836
Blow pipes, table,	Rufus Somerby	Louisville, Ky	Nov. 15, 1842
Boring earth for water, apparatus	•		
_ for	Levi Disbrow	Syracuse, N. Y	Nov. 1, 1830
Boring and tapping water, &c.,			
while under hydrostatic pressure	H. Ariel Norris	New York, N. Y	June 22, 1842
Boring, tapping, and reaming wa-			
ter pipes under hydrostatic pres-			a
sures	H. Ariel Norris	New York, N. Y	Sept. 30, 1849
Bucket, well emptying	Elijah Willard	Egremont, Mass	June 15, 1896
Cements, hydraulic.—See Class 4	-		
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^{*} Date French Patent, May 19, 44. † Reheard Oct. 20, 1828. † Reissued Aug. 11, 49, § Reissued Sep. 9, 43.

MARKARISMS OR DISCOVERIES.	PATENTRES.	residence.	WHEN MOULD.
Cistern-See Gypsum, Class 15.		_	
Cisterns, brick	Jacob Peebles	Concordia, La	July 20, 1846
Cisterns, preventing water freezing	Joshua Woodward	Haverhill, N. H	Nov. 21, 1843
Cistern, rain water	George O. Blenis	Salina, N. Y	Aug. 18, 1837
Cistern, reservoirs, vats, &c	Levi Kidder	New York	Nov. 14, 1835
Cistern, reservoirs, and walls for		O 11' NT 37	34 0 1004
holding water	Wm. Van Vleck	Sullivan, N. Y	Mar. 3, 1834
Cisterns, rotary curve for making		Burlington, Vt Syracuse, N. Y	Oct. 7, 1846 Aug. 20, 1833
Cistern, water	Samuel Booth		Dec. 30, 1833
Cistern, water	George Tibbets, jr Levi Kidder	Jamesville, N. Y New York	Jan. 21, 1831
Cistern, water	Alfred Palmer	Syracuse, N. Y	Dec. 15, 1835
Cistern, water, (on booths)	Obadiah Parker	Syracuse, N. Y	Sept. 15, 1834
Cistern, water, vaults	Horace J. Shumway	Van Buren, N. Y	Nov. 19, 1833
Cock	Jacob Bright	Sunbury, Pa	June 22, 1832
Cocks, construction of, for drawing	2.5	, , , , , , , , , , , , , , , , , , , ,	
water	Thomas C. Clark	Philadelphia, Pa	Mar. 14, 1846
Cock, for drawing liquor	Jona. Bliss	New York	Sept. 24, 1821
Cock, for drawing liquor	Eli Dickinson	Amherst, Mass	Dec. 17, 1823
Cocks, drawing liquors	Henry Rodgers	Auburn, N. Y	Oct. 9, 1841
Cock, filtering	Thomas F. Wenman.	New York, N. Y	April 4, 1846
Cocks, or gas stoppers	Nathaniel D. Whitin.	New York, N. Y	April 29, 1842
Cocks, hydrant	Ebenezer Hubball, as-		
	signee of Jos. Martin	Baltimore, Md	Feb. 10, 1841
Cocks, hydrant	Ebenezer Hubball	Baltimore, Md	May 11, 1841
Cocks, hydraulic and pneumatic	1 T Chamman	Dalainana MA	0-4 11 1941
purposes	Jno. Lee Chapman	Baltimore, Md	Oct. 11, 1841
Cocks, manufacture of	Charles A. Creasey	Philadelphia, Pa	April 29, 1841
Cook, metallic screw	Jer. Carey	Baltimore. Md	April 23, 1822
Cocks, molasses gate	Jonathan D. Kellogg& Jus. Wright; assign-		
i	ed to J. D. Kellogg.	Northampton, Mass	Aug. 16 1839
Cocks, molasses gate	Jervice Whittemore	Boston, Mass	
Cocks, molasses gate	Ammi West	Greene, Me	
Cocks, molasses gate	Levi Lincoln	Hartford, Ct	
Cock, passage of fluids	Joshua Witherle	Boston, Mass	Jan. 19, 1811
Cock, to prevent water freezing in		,	,
pent stocks, &c	Dixwell Lathrop, jr	Norwich, Ct	Dec. 5, 1832
Cock, stop	Peter Walker	New York	April 10, 1800
Cock, stop	Daniel Sharman	Warren, N. Y	July 5, 1814
Cock, stop	John Morris	Hartford, Ct	Mar. 1, 1815
Cock, stop	John Morris	New Haven, Ct	May 15, 1822
Cock, stop	Gaines Fenn	New York	July 12, 1893
Cocks, stop	Chas. F. Johnson and	Oswego, N. Y	June 21, 1839
Cooks stan	J. J. Speed, jr	Ithaca, N. Y	Oct. 16, 1839
Cocks, stop	Ari Davis	Boston, Mass New York	May 8, 1840
Cocks, stop	Horatio Allen	New York	Nov. 12, 1841
Cocks, stop	Francis Jos. Miller	New York	Nov. 21, 1841
Cocks, stop*	Jonathan Ridgway	New York, N. Y	April 16, 1849
Cocks, stop	Uel West and George		
	Dobbs	New York, N. Y	April 30, 1849
Cock, stop	J. F. Ostrander	New York, N. Y	
Coek, stop, block tin	Jo. Dickinson	Hartford, Ct	Mar. 7, 1816
Cocks, stop, connecting for hy-		l	
draulic purposes	Charles Wilson	New York. N. Y	
Cock, stop, construction of	F. H. Bartholomew	New York, N. Y	Aug. 12, 1846
Cock, stop, and filter	William Read	New York, N. Y	Oct. 24, 1846
Cocks, stop, for hydrant	L. Magers, F. D. Da-		
	vis, and Wm. Duke-	Dalaimana 343	T 00 1040
Chalm stan for bandanas	Hart	Baltimore, Md	
Cocks, stop, for hydrants	Henry R. Dunham	New York, N. Y	Jan. 10, 1043
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^{*} Reissued to Jon. Ridgeway, jr., Sept. 23, 1843.

Diversion or discornains.	PATRIFFERS	releasing R.	Weight and place
Cocks, stop, in pipes under hy-			
drostatic pressure, tapping and	.		
inserting	Horatio Allen	New York, N. Y	Nov. 21, 184
Cock, stop, pistons for	F. H. Bartholomew	New York, N. Y	Aug. 12, 184
Cock, valve	John Cluley and Ben-	,	
• • • • • • • • • • • • • • • • • • • •	jamin Standliffe	Philadelphia, Pa	Nov. 8, 182
Cock, valve	Fred. D. Samno	Philadelphia, Pa	June 29, 182
Cock, valve, for hydrants	Benjamin Stancliffe	Philadelphia, Pa	Map 15, 182
Cock, valve and piston	John Lacey	Philadelphia, Pa	May 6, 182
Cock, water	George Youle		Aug. 25, 180
Cock, water	Eb. Hubball	Baltimore, Md	Oct. 4, 182
Compressed air, for drawing li-			, 2, 202
quids	Jasper Johnson	Genesee, N. Y	May 30, 183
Conduit, clay	Samuel Bartlett		Jan. 15, 180
Conduit, self-regulating	James Clarke		Jan. 25, 183
Elevator, raising fluids or grain	Robert Christy		Nov. 21, 181
Elevator, water	John Herrick jr		Feb. 1, 181
Elevator, water	Enoch Honeywell		July 10, 18
Elevating water for mills	William Smith	Gloucester, N. J	Aug. 12, 180
	Jacob Idler	Philadelphia, Pa	July 31, 181
EngineEngine, crank, for raising and	Jucoo Iulcii	I madapha, I a	July 01, 101
	Jos. Clapp	Montaine Mass	Nov 91 191
throwing water	Jos. Ciapp	Montague, mass	Nov. 21, 18
Engine, crank, (improvement on	Ton Clann	Greenfold Moon	Nov. 15 105
Clapp's)	Jos. Clapp	Greenfield, Mass	Nov. 15, 183
Engine, elevating and throwing	Thomas A. Chandler.	Name N V	A 0 100
water		Norfolk, N. Y	Aug. 9, 183
Engine, fire	Jesse Kersey	Pennsylvania	April 13, 179
Engine, fire	Samuel E. Hamlin	Rhode Island	Aug. 30, 179
Engine, fire	Stephen Stewart	New York	Dec. 6, 180
Engine, fire	Jacob Smith, jr	New York	May 20, 180
Engine, fire	Isaac Hathaway	Walton, N. Y	Aug. 6, 181
Engine, fire	Allen Pollock and Ja-	Danton Mana	A C 101
Daning for	cob Perkins	Boston, Mass	Aug. 6, 181
Engine, fire	John Achman	Washington, D. C.	Dec. 30, 181
Engine, fire	Jacob Perkins	Newburyport, Mass.	
Engine, fire	John Richardson, jr	Shrewsbury, Mass	July 24, 181
Engine, fire	Eb. Bryant	New London, Conn.	Mar. 28, 18
Engine, fire	S. Lockwood and W.	Tiana Dalla N V	A
Daring C.	Loveland	Little Falls, N. Y	April 16, 185
Engine, fire	Eb. Higgins	Saratoga, N. Y	April 27, 189
Engine, fire	George Shalk and Wm		G4 00 100
D : C	Tintoff	Lebanon, Pa	Sept. 23, 18
Engine, fire	Ezekiel Daboll	Canaan, Conn	April 12, 18
Engine, fire	John J. Giraud	Baltimore, Md	Nov. 11, 18
Engine, fire	Nathan Pierce	Whitehall, N. Y	Feb. 23, 18
Engine, fire.	Thomas Odiorne	Portsmouth, N. H	Aug. 27, 18
Engine, fire		Salem, N. Y	May 11, 18
Engine, fire	Asa Barrett	Baltimore, Md	Feb. 18, 18
Engine, fire		Marietta, Ohio	July 1, 18
Engine, fire.	Joseph Briggs, jr	St. Louis, Missouri.	
Engine, fire.		Waterford, N. Y	
Engine, fire		New York	Dec. 20, 18
Engine, fire			
	Button	Waterford, N. Y	Sept. 19, 16
Engine, fire	. Charles W. Grannis	Collins, N. Y	Oct. 7, 18
Engine, fire, &c., applying water to			
	Uzziah Wenman	New York	
Engine, fire, domestic			
Engine, fire, horizontal		Belchertown, Mass .	Mar. 11, 18
Engine, fire, method of working	<u> </u>	1	
the lever		Newburyport, Mass.	April 9, 18
Engine, fire, and water pump	. E. Williams&J. Collins	Falley Koads, Mass	June 20, 18
The state of the s			Tune 19 18
Engine, fire, pump for	Henry Gates	Tion commispedit, Mades.	June 12, 10

apuniment of Discounting.	PATOMPENA.	Radiotekou.	weiger should.
Engine, hydraulic	Patrick Lyon	Pennsylvania	Feb. 12, 1860
Engine, hydraulic	John Strong	Massachusetts	Mar. 24, 1861
Engine, hydraulic	Fred. Lippart	Keetztown, Pa	May 3, 1865
Engine, hydro-pneumatic	Richard Crosbie	Newark, N.J	Jan. 6, 1819
Engine, hydro-pneumatic	Richard Wilcox	New York	Nov. 1, 1823
Engine, hydrostatic Engine, hydrostatic, and steam	Daniel Livermere Stephen H. Long and	Blairsville, Pa	July 24, 1834
and and an analysis	Geo. F. A. Hauts	Germantown, Pa	Sept. 3, 1843
Engine, preumatic	John R. Remington	Aberfoil, Alabama	May 26, 1849
Engine, screw, for throwing water	Elijah Ormsbee	Rhode Island	Mar. 21, 1798
Engine, water	Samuel Morey	New Hampshire	April 24, 1799
Engine, water	Joel M. Dupuy	Woodford, Ky	April 13, 1814
Engine, hydraulic, steam.—See Cl		Name Vonte N V	Ma- 09 1946
Faucets, boring barrels for	William Read	New York, N. Y	May 23, 1846
Faucets, drawing liquor	Ira Ives Jer. Brainard	Bristol, Conn Oneida co., N. Y	April 14, 1666 Oct. 4, 1817
Faucets, or molasses gate	Charles Goodyear	Philadelphia, Pa	Feb. 5, 1864
Faucets, molasses	Charles W. Peckham.	New Haven, Conn .	Feb. 10, 1836
Faucets, plugged	William Jones	New York	May 13, 1812
Faucets, and apigot	Jonathan Bliss	Philadelphia, Pa	June 4, 1897
Faucets, spring lever	Charles Goodyear	Philadelphia, Pa	Mar. 16, 1838
Filtering apparatus	Littleton Ayres	Baltimore, Md	July 8, 1834
Filtering machine	Jos. Du Common	New York	Feb. 10, 1816
Filtering machine	Isaac Wiseman	New York	Aug. 20, 1834
Filtering pot	Michael Freytag	Philadelphia, Pa	July 1, 1867
Filtering water	Dan'l McMullin and		N C 1004
Diltering wroter	Thos. M. Corby	Norfolk, Va	Nov. 6, 1894
Filtering water	Christopher Hall John Phillips	Philadelphia, Pa	Feb. 22, 1898
Filtering water.	George B. White	New York	Aug. 27, 1835 July 7, 1835
Filtering water, and other liquids.	James Barron, U.S.N.		Aug. 30, 1831
Filtering water, wine	Solo'n McCombs, Jos.		3. 50, 1552
<i>,</i>	Smith, & Benj. Gatlin	Baltimore, Md	June '24, 1806
Filters	Thomas Bishop	Dobb's ferry, N. Y.	Dec. 31, 1843
Filter	Wm. Ballard, assigned		_
571h 1 . 61	of Royal E. House	New York, N. Y	June 27, 1846
Filters and refrigerators	Joseph T. Craddock.		Dec. 31, 1845
Filters for water	Wm. Kumbel, assig'e		Fal 00 1046
Filtering water	of W. H. Jennison .	New York, N. Y	100. 20, 1040
T. HIGH THE MODEL	of W. H. Jennison .	New York, N. Y	Mar 7 1846
Fluids, measuring	James Bogardus	New York	
Fluids, retention and discharge of.		Westmoreland, N. Y	Nov. 10, 1827
Flumes, for mills	Asa Messer	Providence, R. I	Nov. 19, 1823
Flumes, for water wheels	Jabez B. Fletcher	Richmond, Maine	Feb. 16, 1825
Fount, liquor	John Douglas	New York	
Founteen, design for	John Dutton	Village Green p.o., Pa	
Funnels for fluids	Philip Apple	Philadelphia, Pa	July 13, 1806
Funnals with vents	David Clark	W. Stockbridge, Man	April 9, 1810
Gate, flood	Jone, Lucas	Charleston, S. C	Oct 0 1919
Gate, flood	Benjamin S. Hort Harvey Frink	Georgetown, S. C Chautauque co., N. Y	Oct. 9, 1813
Gate, flume, for water wheels		Framingham, Mass.	
Clate, liquor			1-2-1-
	Bush	Fall River, Mass	Mar. 17, 1843
Gate, mode of shutting	Amos Bolton	Fauquier co., Va	
Gate, paddle	John F. King	Waterford, N. Y	Nov. 29, 1828
Gate, padele	Earl Trumbull	Little Falls, N. Y	
Gate, self-acting waste			
Onto water hel	seph A. Miller	Greenwich, N. J	April 21, 1842
Glete, water, balance		Romo, N. Y	
Gate, water, opening and shutting Gate, water, for penstocks	Henly Potes	Wilmington, Vt Christianburg, Va	
Hose, fire engine	James Boyd		
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Hose, or leather tubes Abraham L. Pennock and J. Sellers And J. Sellers And J. Sellers Samuel Green New York Mass. Samuel Green New York Mass. Samuel Green New York Mass. Section. James Riley Boston, Mass. Feb. Green Riley Riley Boston, Mass. Feb. Green Riley R	-
becaches in	MVL
becaches in Hose, from cloth and gum clastio. Samuel D. Beed. Philadelphia, Pa. Jene S. Mose, India rubbar. Edwin M. Chaffee Rexbury, Mass. Jan. S. Hose, or leather tubes Abraham L. Pennock and J. Selew Philadelphia, Pa. Jene S. Mydrants Samuel Green New York. Mas. Selew Mydrants David Burt. Schenectady, N. Y. Juse S. Mydrants James Riley Boston, Mass. Feb. Schenectady, N. Y. Juse S. Mydrants James Riley Boston, Mass. Feb. Schenectady, N. Y. Juse S. Mydrants James Riley Boston, Mass. Feb. Schenectady, N. Y. Juse S. Mydrants Jacob Stroop. Philadelphia, Pa. Dec. 13 Thos. W. Newtour and Joseph H. Laning. Philadelphia, Pa. Dec. 14 Hydrants Jacob Stroop. Philadelphia, Pa. Dec. 15 Hydrants S. T. Walker Baltimore, Md. Mov. 26 Hydrants David Horne. Baltimore, Md. Mov. 26 Hydrants David Horne. Baltimore, Md. Mov. 27 Hydrants Jacob Stroop. Philadelphia, Pa. Dec. 16 Hydrants Jacob Stroop. Philadelphia, Pa. Dec. 17 Hydrants David Horne. Baltimore, Md. Mov. 27 Hydrants David Horne. Baltimore, Md. Mov. 28 Hydrants Thomas A. Davies Oppenheim, N. Y. Sept. Hydrants and fire pluga. John M. Jorden Baltimore, Md. Oct. 16 Hydrants and fire pluga. John M. Jorden Baltimore, Md. Sept. 16 Hydrants, valves for. Horatio H. C. Kelsey Hydrants, fountain Lowis Gouley Philadelphia, Pa. July 18 Hydrants, fountain Lowis Gouley Philadelphia, Pa. July 18 Hydrants and fire pluga. John M. Jorden Baltimore, Md. Sept. 18 Hydrants, fountain Lowis Gouley Philadelphia, Pa. July 18 Hydrants (Sountain Lowis Gouley Philadelphia, Pa. July 18 Hydrantic machine John Barker William Bhultz. Philadelphia, Pa. July 18 Hydrantic machine John Barker William Barker William Rouley Philadelphia, Pa. May 28 Hydraulic machine John Barker William Bruter Philadelphia, Pa. May 28 Hydraulic machine John Barker William Bruter Philadelphia, Pa. May 28 Hydraulic machine John Barker William Bruter Philadelphia Pa. May 28 Hydraulic machine Graver Bruter Philadelphia Pa. May 28 Hydraulic machine Graver Bruter Philadelphia Pa. May 28 Hydraulic machine Graver Bruter Philadelphia P	
Rose, India subbar.	8, 184
Hose, made of canvass. Hose, made of canvass. Hose, made of canvass. Samuel Green. Samuel Green. New Yerk. Mar. 28 Rydrants. David Burt. Schenectady, N. Y. Rydrants. Thomas Gibson. Hydrants. Thomas Gibson. Hydrants. Thos. W. Newton and Joseph H. Laning. Hydrants. Jacob Stroop. Pittaburgh, Pa. Dec. 19 Hydrants. S. T. Walker Hydrants. S. T. Walker Hydrants. S. T. Walker Baltimore, Md. Hydrants. John Lee Chapman Hydrants. Thomas T. Tasker. Hydrants. Thomas T. Tasker. Hydrants. S. C. Higbie. Hydrants. S. C. Higbie. Hydrants and fire plugs. Hydrants and fire plugs. Hydrants construction of † Robert K. Colvin. Hydrants of fire plugs. Hydralic machine. Hydrometer Hydroneter Hydroneter Hydroneter Hydroneter Hydron	D, 183
And J. Sellere Philadelphia, Pa. July of Mar. & M	9, 149
Hose, made of canvass	
Hose, suction. Hydrants David Burt. Schonectady, N. Y. June 22 Hydrants James Ewing. Philadelphia, Pa. Dec. 18 Hydrants Thos. W. Newtor and Joseph H. Laning. Hydrants Jacob Stroop. Hydrants Jacob Stroop. Hydrants Jacob Stroop. Hydrants Baltimore, Md. Hydrants Jacob Stroop. Hydrants Baltimore, Md. Hydrants S. T. Walker Baltimore, Md. Hydrants Baltimore, Md. Hydrants David Horne. Hydrants Baltimore, Md. Hydrants John Lee Chapman Baltimore, Md. Hydrants John Lee Chapman Baltimore, Md. Hydrants S. C. Higbie Dopenheim, N. Y. Sept. Hydrants, construction of † Robert K. Colvin Dopenheim, N. Y. Sept. Hydrants, construction of † Rydrants, construction of † Robert K. Colvin Dopenheim, N. Y. Sept. Hydrants, construction of † Rydrants, construction of † Robert K. Colvin Dopenheim, N. Y. Sept. Hydrants, construction of † Rydrants, construction of † Rydrantic balance lever Daniel Fiek David Corey New York, N. Y. Dec. If Hydraulic machine. Hydraulic machine. Daniel Tomineen Brookfield, Conn Mar. 2 Hydraulic machine. Daniel Tomineen Brookfield, Conn Mar. 2 Hydraulic machine. Daniel Tomineen Brookfield, Conn Mar. 2 Hydraulic machine. John B. Aveilhe South Carolina. Oct. 1 Hydraulic machine. John B. Aveilhe South Carolina. Oct. 1 Hydraulic machine. John B. Aveilhe South Carolina. Oct. 1 Hydraulic machine. John B. Aveilhe South Carolina. Oct. 1 Hydraulic machine. John B. Aveilhe Southworth. John Clarke New York, N. Y. Aug. 3 Hydraulic machine. John Clarke New York, N. Y. Aug. 3 Hydrometer John Clarke New York, N. Y. Aug. 3 Hydrometer John Reception	6, 181
Mydrants David Burt Schenectady, N. Y. Juse & Mydrants James Ewing Philadelphia, Pa. Dec. 1: Hydrants Thos. W. Newton and Joseph H. Laning Philadelphia, Pa. Dec. 1: Hydrants Jacob Stroop Pittsburgh, Pa. Dec. 1: Hydrants David Horne Baltimore, Md Mov. 2: Hydrants David Horne Baltimore, Md July 2: Hydrants John Lee Chapman Baltimore, Md July 2: Hydrants John Lee Chapman Baltimore, Md July 2: Hydrants John Lee Chapman Baltimore, Md July 2: Hydrants and fire plugs John M. Joeden Baltimore, Md Sept. 1: Hydrants and fire plugs John M. Joeden Baltimore, Md Sept. 1: Hydrants, rountain Lewis Gouley Philadelphia, Pa. Duly 2: Hydrants, rountain Lewis Gouley Philadelphia, Pa. Duly 2: Hydrants, valves for Horatio H. C. Kelsey Dec. 1: Hydrantic balance lever David Corey New York, N. Y. Dec. Hydraulic machine Joeha Hathaway Philadelphia, Pa. Aug. 1: Hydraulic machine Joeha Hathaway Vermont Springled, N. Y. July 1: Springled, N. Y. July 1: Hydraulic machine John A. Aveilhe South Carolina Oct. 1: Hydraulic machine John A. Felb. Millam Barker William Barker May 2: Hydraulic machine Joeha Hathaway Hydraulic machine Joeha Hathaway Hydraulic machine Joeha Hathaway Hydraulic machine Joeha Baruier Hydraulic machine Joeha Baruier William Barker May 2: Hydraulic machine Jacob Roup Kenawha, Va. Dec. 2: Hydraulic machine	
Hydrants	6, 1 83
Hydrants Thomas Gibson Philadelphia, Pa. Dec. 1: Hydrants Jacob Stroop. Pittsburgh, Pa. Dec. 1: Hydrants S. T. Walker Pittsburgh, Pa. Nev. 1: Hydrants S. T. Walker Baltimore, Md. July S. Hydrants David Horne. Baltimore, Md. Oct. II. New York, N. Y. Mar. 1: Hydrants David Horne. David Horne. David Columbia, Pa. July 1! Hydrants and fire pluga. John M. Jorden Baltimore, Md. Oct. II. New York, N. Y. Sept. Hydrants and fire pluga. John M. Jorden Baltimore, Md. Oct. II. New York, N. Y. Sept. Hydrants and fire pluga. John M. Jorden Baltimore, Md. Oct. II. New York, N. Y. Dec. II. Sept. Sept. II. Oct. Milliam Rev. Philadelphia, Pa. July 1! Hydrants, fountain Lewis Gouley Philadelphia, Pa. July 1! Hydraulic balance lever David Corey New York, N. Y. Dec. II. Sydraulic elevator David Corey New York, N. Y. July 2! Hydraulic machine. John B. Aveilhe David Corey New York New York David Corey New York New York David Corey New York	
Hydrants	
Hydrants Jacob Stroop. Philadelphia, Pa. Dec. 16	, I
Hydrants	0. 183
Hydrants S. T. Walker Baltimore, Md Nov. 26 Hydrants S. T. Walker Baltimore, Md July Hydrants David Horne Baltimore, Md Mar. 3 Hydrants David Horne Baltimore, Md Mar. 3 Hydrants Thomas T. Tasker Philadelphia, Pa July Hydrants John Lee Chapman Baltimore, Md Oct. 18 Hydrants Thomas A. Davies New York, N. Y Mar. 18 Hydrants S. C. Higbie Oppenheim, N. Y Sept. Hydrants and fire plugs S. H. Davies Cincinnati, Ohio Hydrants, construction of † Robert K. Colvin Columbia, Pa July 28 Hydrants, fountain Lawis Gouley Philadelphia, Pa Aug. 19 Hydranis, fountain Lawis Gouley Philadelphia, Pa Aug. 19 Hydraulic balance lever David Corey New York, N. Y Dec. 18 Hydraulic machine John M. Jorden Springfield, N. Y July 18 Hydraulic machine John B. Aveilhe Springfield, N. Y July 18 Hydraulic machine John B. Aveilhe South Carolina Oct. 28 Hydraulic machine William Shultz Philadelphia, Pa Aug. 29 Hydraulic machine John B. Aveilhe South Carolina Oct. 19 Hydraulic machine John B. Aveilhe South Carolina Oct. 19 Hydraulic machine John Barker Wilkesbarre, Pa Aug. 29 Hydraulic machine John Barker Wilkesbarre, Pa Aug. 29 Hydraulic machine John Barker Wilkesbarre, Pa Aug. 29 Hydraulic machine James O. Conner Bedford, Pa Oct. 19 Hydraulic machine James O. Conner Bedford, Pa Oct. 20 Hydraulic machine James O. Conner Bedford, Pa Oct. 20 Hydraulic machine James O. Conner Bedford, Pa Oct. 20 Hydraulic machine James O. Conner Bedford, Pa Oct. 20 Hydraulic machine John Clarke New York Oct. 30 Hydraulic machin	
Hydrants S. T. Walker Baltimore, Md July S. T. Walker Baltimore, Md July S. T. Walker Baltimore, Md Mar. 3. Hydrants David Horne Baltimore, Md Mar. 3. Hydrants Thomas T. Tasker John Lee Chapman Baltimore, Md Oct. 18 Hydrants S. C. Higbie Oppenheim, N. Y. Sept. 19 Hydrants and fire plugs. John M. Jorden Baltimore, Md Sept. 19 Hydrants and fire plugs. John M. Jorden Baltimore, Md Sept. 19 Hydrants and fire plugs. John M. Jorden Baltimore, Md Sept. 19 Hydrants fountain Lewis Goulev Philadelphia, Pa. July 18 Hydrants, valves for. Horatio H. C. Kelsey New York, N. Y. Dec. 19 Hydraulic balance lever. David Corey Philadelphia, Pa. Aug. 19 Hydraulic elevator John B. Aveilhe Springfield, N. Y. July 18 Hydraulic machine. John B. Aveilhe South Carolina Daniel Tomlinsen Brookfield, Conn. Mar. 27 Hydraulic machine. William Barker Wilkesbarre, Pa. Aug. 19 Hydraulic machine. William Barker Wilkesbarre, Pa. Aug. 19 Hydraulic machine. John B. Aveilhe South Carolina Oct. 19 Hydraulic machine. William Barker Wilkesbarre, Pa. Aug. 19 Hydraulic machine. John Brookfield, Conn. Mar. 27 Hydraulic machine. John Brookfield, Conn. Mar. 27 Hydraulic machine. Joeph James U. Lyganore, Md Northum'erl'd co., Pa. Hydraulic machine. John Brookfield, Conn. May. 28 Hydraulic machine. John Brookfield, Conn. May. 29 Hydraulic machine. John Brookfield, Conn. May. 20 Hydraulic machine. John Brookfield, Conn. May. 29 Hydraulic machine. John Brookfield, Conn. May. 20 Hydraulic machine. John Brookfield, Conn. May.	
Hydrants	6, 163
Hydrants David Horne Baltimore, Md Mar. 3 Hydrants Thomas T. Tasker Baltimore, Md Oct. 18 Hydrants S. C. Higbie New York, N. Y. Mar. 18 Hydrants, construction of † Robert K. Colvin Columbia, Pa. July Philadelphia, Pa. July Phydrants, one fire plugs. John M. Jorden Baltimore, Md Sept. 19 Hydrants and fire plugs. John M. Jorden Baltimore, Md Sept. 19 Hydrants, fountain Lewis Gouley Philadelphia, Pa. Aug. 19 Hydraulis, valves for Horatio H. C. Kelsey Philadelphia, Pa. Aug. 19 Hydraulic balance lever Daniel Fisk Springfield, N. Y. July 19 Hydraulic elevator Joshua Hathaway Vermont Peb. 20 Hydraulic machine. Joshua Hathaway Vermont Peb. 20 Hydraulic machine. Joshua Hathaway Vermont Peb. 20 Hydraulic machine. William Barker Wilkesbarre, Pa. Aug. 3 Hydraulic machine. William Shultz Philadelphia, Pa. Aug. 4 Hydraulic machine. William Shultz Philadelphia, Pa. Aug. 4 Hydraulic machine. Joseph James McCreery Nobletown, Pa. Jan. 2 Hydraulic machine. William Shultz Philadelphia, Pa. Aug. 4 Hydraulic machine. Joseph James Dec. 19 Hydraulic machine. Joseph James Dec. 19 Hydraulic machine. Joseph James Dec. 19 Hydraulic machine. James O. Conner Bedford, Pa. May 26 Hydraulic machine. Joseph James Dec. 3 Hydraulic machine. Jo	
Hydrants.	
Hydraats	
Hydrants	
Hydrants, construction of † Robert K. Colvin Columbia, Pa. July 28 Hydrants and fire plugat. John M. Jorden Baltimore, Md Sept. Hydrants and fire plugat. S. H. Davies Cincinnati, Ohio July 18 Hydrants, fountain. Lewis Gouley Philadelphia, Pa. Aug. 19 Hydralic balance lever Daniel Fisk Springfield, N. Y. Dec. 18 Hydraulic elevator David Corey New York, N. Y. Dec. 18 Hydraulic machine. John B. Aveilhe South Carolina Oct. 19 Hydraulic machine. John B. Aveilhe South Carolina Oct. 19 Hydraulic machine. William Shultz. Philadelphia, Pa. Aug. 21 Hydraulic machine. Joseph James Lynganore, Md Nov. 16 Hydraulic machine. Joseph James Lynganore, Md Nov. 16 Hydraulic machine. James O. Conner Bedford, Pa. May 28 Hydraulic machine. James O. Conner Bedford, Pa. May 28 Hydraulic machine. James O. Conner Bedford, Pa. May 28 Hydraulic machine. James O. Conner Bedford, Pa. May 28 Hydraulic machine. James Hutchings Reading, Pa. May 28 Hydraulic machine, for currents. Hydraulic machine, for currents. John Clarke. New York. Dec. 21 Hydraulic machine. Joseph Sumier France July 19 Hydraulic machine, for currents. Hydrostatic machine, for currents. Septent MeCormick. Rockbridge co., Va. Oct. Theophilus Somerby Prance July 19 Hydraulic machinery Properatus for raising beer from casks. Theophilus Somerby New York. Peb. 21 Hydrostatic paradox, applied to move mechanery Cadwallsder B. Coldes Hydrostatic paradox, applied to move mechanery Cadwallsder B. Coldes New York May. May 19 Cadwallsder B. Coldes New York May. May 19 Aug. 20 Cadwallsder B. Coldes New York May. May 19	
Hydrants and fire plugs. John M. Jorden S. H. Davies Cincinnati, Ohio July 16 Hydrants, fountain Lewis Gouley Philadelphia, Pa. Aug. 19 Hydraulic balancs lever Daniel Fisk Springfield, N. Y. July 16 Hydraulic elevator James McCreery New York, N. Y. Dec. 18 Hydraulic machine. John B. Aveilhe South Carolina. Oct. 19 Hydraulic machine. Daniel Tomlinsen Brookfield, Conn. Mar. 27 Hydraulic machine. Daniel Tomlinsen Brookfield, Conn. Mar. 27 Hydraulic machine. William Barker Wilkesbarre, Pa. Aug. 20 Hydraulic machine. Joseph James Lynganore, Md. Nov. 16 Hydraulic machine. James O. Conner Bedford, Pa. May 20 Hydraulic machine. James O. Conner Bedford, Pa. May 20 Hydraulic machine. James O. Conner Bedford, Pa. May 20 Hydraulic machine. James O. Conner Bedford, Pa. May 20 Hydraulic machine. James O. Conner Bedford, Pa. May 20 Hydraulic machine. James O. Conner Bedford, Pa. May 20 Hydraulic machine. James O. Conner Bedford, Pa. May 20 Hydraulic machine. James O. Conner Bedford, Pa. May 20 Hydraulic machine. James O. Conner Bedford, Pa. May 20 Hydraulic machine. Jacob Roup Kenawha, Va. Oct. May 20 Hydraulic machines. John Clarke. New York. Dec. 3 Hydrometer John Clarke. New York Dec. 3 Hydrometer Jos. Tucker and E. Dwelle Boston, Mass. Dec. 24 Hydrometer Jos. Tucker and E. Dwelle Boston, Mass. Dec. 24 Hydrostatic paradox, applied to move mechanery Cadwallader B. Colden New York May 30 Hydrostatic paradox, applied to move mechanery Cadwallader B. Colden New York May 31	l, 164
Hydrants and fire plugat. Hydrants, fountain. Hydrants, valves for. Hydrants and fire plugat. Hydrants, valves for. Hydrants balance lever. Daniel Fisk. Springfield, N. Y. Dec. 18 Springfield, N. Y. July 18 Hydraulic elevator Hydraulic machine. Joseph James Hydraulic machine. Hydraulic machine. Joseph James Hydraulic machine. Hydraulic machine. James O. Conner Hydraulic machine, for currents Hydraulic machines Hydraulic machines Hydraulic machines Hydrostatic, exostatic machinevy Hydrostatic paradox, applied to move machinery Cadwallsder B. Coldes New York May Springfield, N. Y. Dec. 18 Springfield, N. Y. Dec. 19 Cot. 19 Cot. 19 Cot. 19 Cot. 19 Cot. 19 Conner Bedford, Pa. May May May May May May May M	9, 1 83
Hydrants, fountain. Hydrants, valves for. Hydraulic balance lever. Mydraulic elevator Hydraulic elevator Hydraulic machine. William Barker Wilkesbarre, Pa. Aug. 20 Aug. 20 Aug. 30	
Hydraulic balance lever. Hydraulic elevator Hydraulic elevator Hydraulic machine. Hydraulic machine, for currents. Hydrometer John Clarke. Rockbridge co., Va. May 26 Rockbridge co., Va. May 37 May 38 May 48 May 49 May 49 May 49 May 40 Ma	1, 102
Hydraulic belance lever. Hydraulic elevator Hydraulic elevator Hydraulic machine. Hydraulic machines. Hydrostatic or hydraulio press for pressing cotton. Hydrostatic or hydraulio press for pressing cotton. Hydrostatic paradox, applied to move mechinery. Hydrostatic paradox, applied to move mechinery. Cadwallsder D. Coldes New York. Maug. 3 Aug. 3 Aug. 3 Aug. 2 Aug. 2 Aug. 3 Albany, N. Y Oct. 3 Aug. 2 Aug. 2 Aug. 3 Albany, N. Y Oct. 3 Aug. 2 Aug. 2 Aug. 2 Aug. 3 Aug. 4 Aug. 3 Aug. 3 Aug. 3 Aug. 3 Aug. 3 Aug. 3 Aug. 4 Aug. 4 Aug. 4 Aug. 4 Aug. 5 Aug. 5 Aug. 5 Aug. 5 Aug. 5 Aug.	
Mydraulic elevator	
Hydraulic machine. James McCreery Joshua Hathaway Vermont. Oct. 28 Peb. 20 Oct. 29 Peb. 30 Oct. 21 Oct. 21 Oct. 21 Oct. 21 Oct. 21 Oct. 22 Oct. 23 Oct. 24 Oct. 24 Oct. 25 Oct. 26 Oct. 26 Oct. 26 Oct. 26 Oct. 27 Oct. 2	
Hydraulic machine. Joshua Hathaway Vermont Oct. 21 Hydraulic machine. John B. Aveilhe South Carolina. Oct. 11 Hydraulic machine. Daniel Tomlinsen Brookfield, Conn. Mar. 27 Hydraulic machine. William Barker. Wilkesbarre, Pa. Aug. 21 Hydraulic machine. William Shultz. Philadelphia, Pa. May 21 Hydraulic machine. Charles Darmand Georgetown, D. C. Aug. 12 Hydraulic machine. Joseph James Lynganore, Md Nov. 11 Hydraulic machine. James O. Conner Bedford, Pa. May 21 Hydraulic machine. James O. Conner Bedford, Pa. May 22 Hydraulic machine. James O. Conner Bedford, Pa. May 23 Hydraulic machine. James O. Conner Bedford, Pa. May 24 Hydraulic machine. James O. Conner Bedford, Pa. May 25 Hydraulic machine, Thomas Hutchings Reading, Pa. May 26 Hydraulic machinery Prance July 11 Hydraulic machinery Robert McCormick. New York. Dec. 21 Hydrometer Jos. Tucker and E. Dwelle. Boston, Mass. Dec. 22 Hydrostatic, exostatic machinery John Houpt. Powlland, Ala. Aug. 21 Hydrostatic paradox, applied to move mechanery Cadwallader D. Coldes Mey York May 16 Cadwallader D. Coldes New York May 16 Aug. 21 Hydrostatic paradox, applied to move mechanery Cadwallader D. Coldes New York May 16	5, 199
Hydraulic machine. Barnabes Langdon. Vermont. Peb. 20 Hydraulic machine. Daniel Tomlineen. Brookfield, Conn. Mar. 2 Hydraulic machine. William Barker. Wilkesbarre, Pa. Aug. 20 Hydraulic machine. William Shultz. Philadelphia, Pa. May 20 Hydraulic machine. Jer. Black Darmand Georgetown, D. C. Aug. 1 Hydraulic machine. Jer. Black Northum'erl'doo.,Pa. April 21 Hydraulic machine. Jacob Roup. Kenawha, Va. Oct. 1 Hydraulic machine. Louis Brunier France July 3 Hydraulic machines. Louis Brunier France July 4 Hydraulic machinery. Robert McCormick. Rockbridge co., Va. May 20 Hydraulic machinery. Thomas Hutchings Reading, Pa. May 20 Hydraulic machinery. Robert McCormick. Rockbridge co., Va. Oct. 1 Hydroenteer. Elijah Southworth Nantucket, Mass. Oct. 1 Hydroenteer. Elijah Southworth New York. Feb. 2 Hydroenteir or hydraulic press for pressing cotton. John Houpt. Forkland, Ala. Aug. 2 Hydrostatic paradox, applied to move machinery. Cadwallsder D. Coldes Mey 10 Hydrostatic paradox, applied to move machinery. Cadwallsder D. Coldes New York. May 10 Cadwallsder D. Coldes New York. May 10 Aug. 2 New York. May 20 Aug. 2 Philadelphia, Pa. May 20 Aug. 2 May 20 Aug. 2 May 20 Charles Darmand Georgetown, D. C. Aug. 3 May 20 Aug. 2 May 20 Aug. 3 May 20 Aug. 2 May 20 Aug. 2 May 20 Aug. 2 May 20 Aug. 3 Aug. 2 Aug. 3 Aug. 3 Aug. 2 Aug. 3 Aug. 3 Aug. 2 Aug. 3 Aug. 4 Aug. 3 Aug. 4 Aug. 3 Aug. 4 Aug. 3 Aug. 4 Aug. 4 Aug. 5	
Hydraulic machine. Hydraulic machine. Hydraulic machine. William Barker. Willeabarre, Pa. Aug. 20 William Shultz. Philadelphia, Pa. May 20 Charles Darmand. Georgetown, D. C. Aug. Lynganore, Md. Nov. 10 Hydraulic machine. Joseph James. Lynganore, Md. Nov. 10 Hydraulic machine. Jer. Black. Northum'eri'dco.,Pa. April 22 Hydraulic machine. James O. Cosmer. Bedford, Pa. May 20 Aug. Lynganore, Md. Nov. 10 Nov. 10 Hydraulic machine. James O. Cosmer. Bedford, Pa. May 20 Aug. Lynganore, Md. Nov. 10 Nov. 10 Northum'eri'dco.,Pa. Aug. Hydraulic machine. Jacob Roup. Thomas Hutchings. Reading, Pa. May 20 Aug. May 20 Aug. Lynganore, Md. Nov. 10 Northum'eri'dco.,Pa. Aug. May 20 Aug. Hydraulic machine. James O. Cosmer. Bedford, Pa. May 20 Aug. Aug. May 20 Aug. Aug. Aug. May 20 Aug.	0, 190
Hydraulic machine. Joseph James Lynganore, Md Northum'erl'd co., Pa Hydraulic machine. Jacob Roup Hydraulic machine. Hydraulic machine. Hydraulic machine. Hydraulic machine. Hydraulic machine. Hydraulic machine, for currents. Hydraulic machine, for currents. Hydraulic machinery. Hydraulic machinery. Hydrometer. Hydropneumatic apparatus for raising beer from casks. Hydrostatic, exceptatic machinery. Hydrostatic or hydraulic press for pressing cotton. Hydrostatic paradox, applied to move machinery. Hydrostatic paradox, applied to move machinery. Cadwallsder D. Coldes William Barker. William Shuitz. Philadelphia, Pa. May 20 Georgetown, D. C. Aug. 20 Mov. 18 Northum'erl'd co., Pa April 22 Mapy 22 Mapy 22 Mapy 22 Mapy 23 May 24 Mapy 25 Mapy 26 Map	4, 180
Hydraulic machine	
Hydraulic machine	
Hydraulic machine. Joseph James Lynganore, Md Nov. 16 Hydraulic machine. Jer. Black Northum'eri'dco.,Pa April 21 Hydraulic machine. James O. Cosmer Bedford, Pa May 26 Hydraulic machine. Jacob Roup Kenawha, Va. Oct. Hydraulic machine. Thomas Hutchings Reading, Pa May 26 Hydraulic machine, for currents John Clarke. New York. Dec. 3 Hydraulic machinery Robert McCormick. New York. Dec. 3 Hydraulic machinery Elijah Southworth Nantusket, Mass. Oct. Hydrometer Jos. Tucker and E. Dwelle. Boston, Mass. Dec. 26 Hydropneumatic apparatus for raising beer from coaks. Richard Sealy New York, N. Y. Aug. 3 Hydrostatic, exostatic machinery John Houpt Powkland, Ala. Aug. 2 Hydrostatic paradox, applied to Cadwellsder D. Coldes New York Md. Nov. 16 Nort Med. Northum'eri'dco., Pa April 22 May 26 New York Oct. Nantusket, Mass. Oct. Feb. 26 Soston, Mass. Dec. 27 Albeay, N. Y. Aug. 3 Aug. 2 New York Md. Nov. 16 Northum'eri'dco., Pa April 22 North	
Hydraulic machine. Jer. Black. Northum'erl'd co., Pa April 2: Hydraulic machine. Jacob Roup. Kenawha, Va. Oct. Hydraulic machine. Thomas Hutchings Reading, Pa. May 2: Hydraulic machine, for currents. Hydraulic machine, for currents. Hydraulic machinery. John Clarke. New York. Dec. 3: Hydraulic machinery. Theophilus Somerby. Hydraulic machinery. Elijah Southworth. New York. Feb. 2: Hydroenter. Jos. Tucker and E. Dwelle. Boston, Mass. Dec. 2: Hydroenteit, exceptatic machinery. Richard Sealy. New York, N. Y. Aug. 3: Hydroestatic paradox, applied to move machinery. Cadwallsder D. Colden New York. May 1:	7, 181
Hydraulic machine	
Hydraulic machine. Hydraulic machine. Hydraulic machine. Hydraulic machine, for currents. Hydraulic machinery. Hydraulic machin	
Hydraulic machine. Hydraulic machines. Hydraulic machine, for currents. Hydraulic machine, for currents. Hydraulic machine, for currents. Hydraulic machinery. Hydraulic machinery. Hydrometer. Hydrometer. Hydrometer. Hydrometer. Hydropneumatic apparatus for raising beer from casks. Hydrostatic, exceptatic machinery. Hydrostatic paradox, applied to move machinery. Hydrostatic paradox, applied to move machinery. Hydrostatic paradox, applied to Cadwallsder D. Coldes New York. Méay Hadroner. Hydrostatic paradox, applied to Machinery. Hydrostatic paradox, applied to Cadwallsder D. Coldes New York. Mány Hydrostatic paradox, applied to Cadwallsder D. Coldes New York. Mány Hydrostatic paradox, applied to Cadwallsder D. Coldes New York. Mány Hydrostatic paradox, applied to Cadwallsder D. Coldes New York. Mány Hydrostatic paradox, applied to Cadwallsder D. Coldes New York. Mány Hydrostatic paradox, applied to Cadwallsder D. Coldes New York. Mány Hydrostatic paradox, applied to Cadwallsder D. Coldes New York. Mány Hydrostatic paradox, applied to Cadwallsder D. Coldes New York. Mány Hydrostatic paradox, applied to Cadwallsder D. Coldes New York.	6, 182
Hydraulic machines. Hydraulic machine, for currents. Hydraulic machinery. Hydraulic machinery. Hydrometer. Hydrometer. Hydropneumatic apparatus for raising beer from oasks. Hydrostatic, exceptatic machinery. Hydrostatic paradox, applied to move machinery. Hydrostatic paradox, applied to cadwallader D. Coldes New York. Louis Brunier. France. July Revenue. New York. New York. New York. Dec. 22 Boston, Mass. Dec. 22 Albany, N. Y. Oet. 33 Forkland, Ala. Aug. 2	7, 188
Hydraulic machinery. Hydraulic machinery. Hydraulic machinery. Hydraulic machinery. Hydrometer. Hydrometer. Hydrometer. Hydrometer. Hydropeter. Hydropet	8, 194
Hydraulic machinery	
Hydraulic machinery	1, 183
Hydrometer	1, 199
Hydrometer	8, 182
Hydro-pneumatic apparatus for raising beer from casks	
raising beer from casks	3, 182
Hydrostatic, exostatic mechinery. E. C. Genet Albany, N. Y Oct. 3: Hydrostatic or hydraulic press for pressing cotton John Houpt Forkland, Ala Aug. 2: Hydrostatic paradox, applied to move mechinery Cadwellader D. Colden New York May 1:	
Hydrostatic or hydraulic press for pressing cotton	
Hydrostatic paradox, applied to move machinery	1, 102
Hydrostatic paradox, applied to move machinery	1 194
move machinery Cadwallader B. Colden New York May 1	1, 104
	9. 191
	o, 202
	2, 181
Hydrostatic and pneumatic ma-Robert Mills and Hen-Washington, D.C., &	_,
chine, for propelling. ry B. Fernald. Portland, Maine Oct. 10	0, 183
Hydrostatic press	
Hydrostatic press Edward Merrill New Bedford, Mass. Mar. 2	8, 189
Hydrostatic press, oil O. Badger and O. Luli Otsego, N. Y Aug.	9, 183
ice, application to conduit pipes Henry Cunningham Johnstown, N. Y June 2	9, 199

^{*} Reissued July 1, 1836. † Additional improvement, Jan 16, '45. † Reissued Feb 4, '49. † Reissued Oct 5 '36.

Lispoors, štæwing and corking. Lispoors, mode of elevating. John A. Smith. Mossuring liquide, measures for. John S. Tough. Mossuring liquide, measures for. John S. Tough. Mossuring liquide, measures for. John S. Tough. Mossuring and transferring liquide Molasses, &c., apparatus for draw- ing from casks. Pipes. Pipes, aqueduct. Pipes, aqueduct. Pipes, aqueduct. Pipes, aqueduct. Robert Ramsey. Pipes, conduit. Elsha Putnam. Albany, N. Y. Dec. 31, 818 Pipes, conduit. Dispos, conduit. Elsha Putnam. Albany, N. Y. Dec. 31, 818 Pipes, for fire engines. James Ritiey. Pipes, for fire engines. James Ritiey. Pipes, for fire engines. Pipes, fire, securing from the price for fire engines. Pipes, the fire for fire engines. Pipes, the fire fire engines. Pipes, the fire engines. Pipes, fire, securing for for engines. Pipes, the fire fire engines. Pipes, the fire fire engines. Pipes, the fire engines				
Liquors, seewing and corking. Liquors, mode of elevating. John A. Smith. Messuring liquida, measures for. Messuring and transferring liquida Messuring and transferring liquida Thomas W. Whiteley Molasses, co., apparaus for draw- ing from casta. John S. Tough. Thomas B. Tough. Baltimore, Md. July 22, 122 Baltimore, Md. New Lopdon, Conn. Aug. T. 322 Baltimore, Md. July 23, 122 Baltimore, Md. July 23, 122 Baltimore, Md. Hartleton, Pa. Mar. 7, 1846 Hartleton, Pa. Mar. 7, 1846 Hartleton, Pa. Mar. 19, 1823 Stockbridge, Mass. Mar. 19, 1824 Mar. 19, 1823 Stockbridge, Mass. Mar. 19, 1824 Mestimister, Va. Mar. 19, 1824 Mestimister, Va. Mar. 19, 1824 Westimister, Va. Mess. Booton, Mass. July 21, 1805 Sherburne, Mass. July 21, 1807 Pipes, tubes. Jonathan Ball. New York, N. Y. Dec. 15, 1843 Pipes, tubes, for conveying water Pipes, water, coating. John H. Thorndike. John H. Thorndi			1	
Licytore, mode of elevating John A. Smith. New Lopdon, Conn. Aug. 7, 100 Measuring inquida, measures for John Measuring and transferring liquide Molassea, &c., apparatus for drawing from casks. Thomas B. Abinson. Feb. 1, 40 Pipes, apaceduct. Thomas B. Robinson. Stockbridge, Mass. Mar. 7, 1846 Pipes, apaceduct. Thomas B. Armatead Bloomfield, N. Y. April 15, 184 Pipes, conduit. Elisha Futuam. Albany, N. Y. Doc. 31, 1846 Pipes, conduit. Elisha Futuam. Albany, N. Y. Doc. 31, 1846 Pipes, conduit. Conduit. Lisha Futuam. Albany, N. Y. Doc. 31, 1846 Pipes, conduit. Coult West. New York, N. Y. Dec. 18, 1818 Pipes, conduit, coupling. Uel West. New York, N. Y. Dec. 18, 1818 Pipes, conduit, coupling. Interpretary of the c	Administration of Designation	<i>5 (200)</i>		
Licytors, mode of elevating. John A. Smith. New Lopdon, Conn. Aug. 7, 100 Measuring and transferring liquide Thomas W. Whiteley Patients. Aug. 7, 100 Mossing, Gorn casks. Thomas B. Robinson. Stockbridge, Mass. Mar. 7, 1046 Pipes, aqueduct. Thomas B. Arnastead Bloomfield, N.Y. April 15, 162 Pipes, aqueduct. Thomas B. Arnastead Bloomfield, N.Y. April 15, 162 Pipes, conduii. Elisian Futuam Albany, N.Y. Doe. 31, 1816 Pipes, conduii. Conduit. Elisian Putuam Albany, N.Y. Nov. 18, 1818 Pipes, conduii. Colisian Putuam Albany, N.Y. Doe. 31, 1816 Pipes, conduii. John Gark Westminster, Va. Dec. 18, 1818 Pipes, conduii. John Gark Westminster, Va. Dec. 18, 1818 Pipes, conduii. John Gark Nov. 18, 1818 Pipes, wise securing from frost. Nov. 18, 1818 Pipes, gonduii. Jame Alley Boeton, Mass. Feb. 6, 1838 Pipes, gonduii. Jame Alley Boeton, Mass. July 2, 1804 Pipes,				N 0 000
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Molasses, &c., appearatus for draw ing from casks. Pipes. Sec Class 2, 9, and 15. Pipes, aqueduct. Thomas B. Robinson. Thomas B. Armstead. Pipes, aqueduct. Thomas B. Armstead. Robert Rameey. Hardeton, Pa. Mar. 7, 1846 Pipes, conduit. Elisha Putnam. Albany, N. Y. Dec. 31, 1816 Pipes, conduit. Elisha Putnam. Albany, N. Y. Dec. 31, 1816 Pipes, conduit. Licark and L. Crowell. Pipes, conduit. J. Clark and L. Crowell. Pipes, fire, securing from frost. David Lownes. Pipes, fire, securing from frost. Pipes, fire, securing from frost. Pipes, fire, securing from frost. Pipes, supply for aqueducts, construction of. Pipes, supply for aqueducts, construction of. Pipes, tubes, for conveying water.		Thomas W. Whitelev		
Pipes		,	,	
Pipes, aqueduct. Thomas B. Robinson. Stockbridge, Mass. Mar. 19, 1828 Pipes, conduit. Robert Ramsey. Hanower, N. H. June 24, 1869 Pipes, conduit. Elisha Putnam. Albany, N. Y. Dec. 31, 1816 Pipes, conduit. Lisha Putnam. Albany, N. Y. Dec. 31, 1816 Pipes, conduit. J. Clarkand L. Crowell Westminster, Va. Dec. 18, 1816 Pipes, conduit. Cleik West. New York, N.Y. July 23, 1842 Pipes, conduit, coupling. Uel. West. New York, N.Y. July 23, 1842 Pipes, fire, testing. Thomas Backers. Pensylvania. July 21, 1803 Pipes, supply for aqueducts, construction of Pipes, supply for aqueducts, construction of Joseph Putnam Salem, Mass. July 1, 1804 Pipes, supply for aqueducts, construction of Joseph Putnam Salem, Mass. July 1, 1804 Pipes, supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Pipes, with supply for aqueducts, construction for Joseph Putnam Salem, Mass. July 1, 1804 Putnam, July 1, 1804 Putnam, July 1, 1804 Putnam, July 1, 1804		Daniel Hunsicker	Hartleton, Pa	Mar. 7, 1846
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Pipes, for fire engines.				
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Struction of Jehn H. Thorndike Soaton, Mass July 1, 1848	Pipes, fire, testing	Theophilus Packard	Sherburne, Mass	April 29, 1808
Pipes, tubes.		Tabe II III 3:1	D-4 M	T 1 1044
Pipes, tubes, for conveying water				
Piston, for pumps.				
Piston, for pumps.	Pipes, water, coating			
Paeumatia machine	Piston, for pumps			
Power, obtaining, by certain fluids Press, hydrostatic, (Bramah's). D. H. Mason and M.				
Press, hydro-machanical		Mark I Roya		
W. Baldwin	Press, hydrostatic, (Bramah's)		Liondon, Bilgiana	11th . 00, 100
Pumps Elisha Rigg Pennsylvania July 29, 1794 Pumps Jacob Perkins Massachusetts July 9, 1601 Pumps John Clark New York May 19, 1803 Pumps Daniel M. Miller New York Mar. 5, 1804 Pumps Benjamin Folger Hudson, N. Y. July 7, 1804 Pumps William Rhodes New York May 16, 1808 Pumps William Rhodes New York May 16, 1808 Pumps William Shultz Baltimore, Md June 24, 1809 Pumps William Shultz Baltimore, Md June 24, 1809 Pumps William Shultz Baltimore, Md June 24, 1809 Pumps Pumps Brook Canfield Morristown, N. J. June 24, 1809 Pumps Pinny Upham Brookfield, Mass Mar. 9, 1811 Mar. 9, 1811 Pumps Jonathan Evans Newburyport, Mass Mar. 9, 1812 Pumps Jacob Perkins Newburyport, Mass Mar. 23, 1813 Pumps Daniel W. Christman New York Feb		W. Baldwin	Philadelphia, Pa	Dec. 2, 1829
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Pumps				
Pumps				
Daniel M. Miller. New York. Mar. 5, 1804				
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Samuel Gunn Geneva, N. Y Aug. 6, 1813			Tiewnuryhori, mass.	Mar. 20, 1019
Pumps. E. B. Shammon Scipio, N. Y June 20, 1816 Pumps Daniel W. Christman New York Feb. 8, 1817 Pumps Thomas Nicholson Washington, D. C. April 29, 1817 Pumps John M. Dearborn Boston, Mass May 3, 1817 Pumps William P. Tilton Boston, Mass May 6, 1817 Pumps Luke M. Leighton Portsmouth, N. H. Sept 1, 1817 Pumps William Purcell New York Ney 1, 1817 Pumps Daniel Updike New York Feb. 19, 1818 Pumps James Barron Norfolk, Va Feb. 20, 1819 Pumps Job. L. Munson New Haven, Conn April 26, 1819 Pumps John Babcock, jr Edmeston, N. Y May 22, 1835 Pumps Sylvanus Russell Olean, N. Y April 13, 1826 Pumps J. Robinson and Luke Rutland, N. Y April 13, 1826			Geneva, N. Y	Aug. 6, 1813
Pumps. Thomas Nicholson Washington, D. C. April 29, 1817 Pumps. John M. Dearborn Boston, Mass. May 3, 1817 Pumps. William P. Tilton Boston, Mass. May 6, 1817 Pumps. Luke M. Leighton Portsmouth, N. H. Sept. 1, 1817 Pumps. William Purcell. New York Nev. I, 1817 Pumps. Daniel Updike New York June 12, 1818 Pumps. James Barron Norfolk, Va Feb. 20, 1818 Pumps. Job L. Munson New Haven, Conn. April 26, 1819 Pumps. John Babcock, jr. Edmeston, N. Y May 6, 1825 Pumps. John Babcock, jr. Edmeston, N. Y May 22, 1835 Pumps. Philo C. Curtis. Utica, N. Y May 22, 1835 Pumps. Sylvanus Russell Olean, N. Y Feb. 4, 1836 Pumps. Theodoric Brooks Rutland, N. Y April 13, 1826 Pumps. John Bobon and Luke Shaw Each Moire Feb. 1, 1837		E. B. Shammon	Scipio, N. Y	June 20, 1816
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Pumps. Robert Gray. Milton, Pa. Nov. 11, 1819 Pumps. John Babcock, jr. Edmeston, N. Y. May 6, 1825 Pumps. Philo C. Curtis. Utica, N. Y. May 22, 1835 Pumps. Sylvanus Russell Olean, N. Y. Feb. 4, 1836 Pumps. J. Robinson and Luke Rutland, N. Y. April 13, 1826 Pumps. J. Robinson and Luke Roth Moire Feb. 1, 1837	Pumps	Job L. Munson	New Haven, Conn	
Pumps	Pumps	Robert Gray	Milton, Pa	Nov. 11, 1819
Pumps	Pumps	John Babcock, ir	Edmeston, N. Y	May 6, 1825
Pumps	FumpsPumps	Philo C. Curtis	Utica, N. Y	May 22, 1835
Pumps J. Robinson and Luke	Pumps	Theodoric Brooks	Rutland N V	April 12 1206
Shaw Roth Moine Feb 1 1897	Pumps	J. Robinson and Luke	-	
Pemps R. Wileman East Hartford, Conn. July 9, 1829	-	Shaw	Roth Maine	Feb. 1, 1827
,	Pemps	R. Wileman	East Hartford, Conn.	July 9, 1829

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	T.L. M. EVIII.	Dalaina NA	S 16 1990
Pumps	John W. Hillias	Baltimore, Md	Sept. 16, 1899
Pumps	Antoine Batby	New York	May 18, 1836 May 20, 1836
Pumps	Martin Mettee J. Beckwith	Baltimore, Md Saratoga, N. Y	April 16, 1831
Pumps	Jesse Reed	Marshfield, Mass	Aug. 5, 1831
Pumps	Noble Phelps	Turin, N. Y	Oct. 20, 1831
Pumps	Moses Bucklin	Grafton, N. H	Oct. 25, 1832
Pumpe	Martin Mettee	Baltimore, Md	Mar. 8, 1833
Pumps	Frederick Krieg	Baltimore, Md	Feb. 6, 1833
Pumps	Dudley L. Farnham	Philadelphia, Pa	Jan. 24, 1834
Pumps	Heinrich Bachman	Lancaster, Pa	April 2, 1835
Pumps	Amos Minor	Jordon, N. Y	July 7, 1835
Pumpe	Joseph Redelsperger	Mansfield, N. J	Oct. 31, 1835
Pumps	J. F. Walker	Eaton, Pa	May 6, 1836 June 30, 1836
Pumps	Abner T. Mixwell	Oxford, N. J	Feb. 3, 1838
Pumpe	Joseph Smart	Enton, Pa	July 24, 1838
Pumps	Joseph Evans	Lebanon, Ohio	Nov. 9, 1838
Pump	Humphrey L. Hughes		June 29, 1839
Pump	James Pike and Wil-	,, ,	,
	lard Fisk	Cumberland, R. I	Aug. 13, 1839
P ump	Peter P. and Daniel D.	·	
•	Campbell, assignees		
	of Abraham T. Mix-		
_	sell	Oxford, N. J	Sept. 28, 1839
Pump	Lebbeus Caswell	Harrison, Maine	May 19, 1840
Pump	Joseph Evans	Lebanon, Ohio	May 25, 1840
Pump	Jesse Reed	Marshfield, Mass	April 16, 1841 May 15, 1841
Pump	William M. Wheeler. Sidney S. Hogle	Liberty, Mo Lansingburg, N.Y	May 29, 1841
Pump	Chapman Warner	Lexington, Ky	Nov. 10, 1841
Pump	Joel Farnam	Stillwater, Mass	Nov. 16, 1841
Pumps	Augustus Thaver	Chatham, Vt	Feb. 1, 1842
Pumpe	W. and B. Douglass	Middletown, Conn	Dec. 31, 1842
Pumpe	William L. Jacobs	Lancaster, Pa	Sept. 23, 1842
Pumps	S. C. Higbie	Oppenheim, N. Y	Mar. 21, 1843
Pumpe	T. Jefferson Wolfe	Balumore, Md	Sept. 27, 1844
Pumpe	Joseph H. Webster	St. Louis, Missouri.	Feb. 28, 1845
Pumps	Frederick Walther	Winchester, Va Brunswick, Ohio	May 1, 1845 Oct. 24, 1846
Pumps	David Hinman S. R. Sharpe, assignor	,	OCE 21, 1010
Pump	of F. B. Hyatt	Maysville, Ky	June 16, 1846
Pump	Chapman Warner	Louisville, Ky	July 7, 1846
Pumps, air	Timothy Claxton	Boston, Mass	June 7, 1834
Pumpe, air	Charles Goodyear	Philadelphia, Pa	Mar. 30, 1835
Pumps, air, or ventilator	George Harley and		
	John Sedgwick	Philadelphia, Pa	June 1, 1832
Pumps, air, and water, double		Philadelphia, Pa	Mar. 27, 1815
Pumps, air, and steam.—Sec Class		Pasten Mass	Nov 10 1041
Pump, air	Joseph M. Wrightman		Nov. 10, 1841 July 17, 1828
Pumps, applying power to common		Baltimore, Md Wilmington, Vt	Aug. 25, 1846
Pumps, atmospheric piston Pumps, balance wheel		Hanover, Mass	July 25, 1809
Pumps, balance wheel	1	Norristown, Pa	Dec. 8, 1809
Pumps, beer and cider	Richard Sealy	New York	May 6, 1825
Pumps, beer and soda water	Levi Pitkin	Rochester, N. Y	Oct. 11, 1828
Pump boxes	John Stickney	Baltimore, Md	May 1, 1864
Pump boxes	Israel P. Williams and	a ,	D 0 1000
	8. G. Rea		
Pump and boxes			
Pump boxes, elliptical valve	James Baker		May 9, 1017
Pump boxes, metallic, single valve Pump bucket	David Coon	Mendon N Y	Nov. 28, 1820
Pump, cast iron	I. Reed and I. Reed	Plymouth. Mass	Nov. 19. 1832
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MANUSCOME OF DISCOMENTAR.	PATIMITINGS.	remberor.	vanderaprutip.
Pump, catile	Andrew Bailey	Jefferson, Ohio	Aug. 3, 1986
Pump, cattle	Shively Stadon	Greenwood, Pa	April 2, 1862
Pump, centrifugal	W. D. Andrews	New York, N. Y.	Mar. 14, 1965
Pump, Chinese, chain	Jeremiah Black	Northumberland, Pa	Aug. 2, 1000
Pump, city, supply	John L. Sullivan	New York	
Pump, double acting cylinder	Phelps Mix	Germantowff, Pa	
Pump, double piston	S. W. Allen	Geneva, N. Y	July. 21, 1831
Pump, double, preparing moulds	T7 T7	D - 1-6-12 Mass	June 29, 1839
for casting	Foster Henshaw	Brookfield, Mass New York	Dec. 28, 1833
Pump, drawing and forcing	John L. Sullivan	Massachuseus	
Pump, dry, bellows	Enoch Alden	Massachuseus	1101. 10, 1000
Pump, elevating, grain, meal, &c.	John Ewing and David	Oxford, Pa	Oct. 2, 1813
Pump, endless chain	J. A. Puts and H. A.	Winthrop & Liver-	
rump, endrose chama-terms.	Pitts	more, Me	April 28, 1834
Pump, fire engine	Joseph Newman	Baltimore, Md	April 14, 1838
Pumps and fire engines	Benjamin T. Babbitt.	Little Falls, N. Y.).	
I ambe min mo one month of the	Shuter C. Highee and		Oct. 7, 1842
	Peter Plantz	Oppenheim, N. Y.	
Pump, folding paddle	Spencer Thomas	Boston, Mass	Oct. 10, 1817
Pump, forcing, double	Charles Colver	Champlain, N. Y	April 1, 1806
Pump, forcing, double	Eleazer Cady, jr	Chatham, N. Y	Mar. 9, 1808
Pump, forcing, double	William Beach	Franklin, N. Y	Feb. 19, 1811
Pump, forcing, double	Thomas Farris	Dutchess co., N. Y.	Feb. 20, 1811
Pump, forcing, double	Levi Gray	Otsego, N. Y	Mar. 7, 1811
Pump, forcing, double	Francis Hamson	Easton, Pa	Mar. 16, 1816
Pump, forcing, double	William Baker	Springfield, N. Y	Dec. 31, 1819
Pump, forcing, double	Lena Gillett, adm'x of	3777 . 3 Ct	April 6, 1820
The continue double	Samuel Gillett	Windsor, Ct	Oct. 23, 1837
Pump, forcing, double	D. L. Farnham	New York	Aug. 20, 1835
Pump, forcing, double	William Douglass Levi Newton	Alexander, N. Y	Mar. 8, 1836
Pump, forcing, double Pump, forcing, double	John G. White	Dryden, N. Y	July 1, 1836
Pump, forcing	John Eveleth	Rhode Island	June 13, 1801
Pump, forcing	Aaron Taylor	Boston, Mass	Oct. 4, 1805
Pump, forcing	Pliny Upham	Brookville, Mass	Jan. 1, 1809
Pump, forcing	John Paddleford	Lebanon, N. Y	May 6, 1823
Pump, forcing	Samuel Currey	Williamson, Tenn	Jan. 3, 1825
Pump, forcing	Benjamin Lapham	Waterford, N. Y	Nov. 19, 1833
Pump, foreing	James D. Egbert	Laneing, N. Y	Sept. 22, 1834
Pump, forcing	Joel Farnam	Stillwater, N. Y	Oct. 22, 1834
Pump, forcing	Benjamin Egbert	Lansing, N. Y	Jan. 23, 1836
Pump, forcing	W. W. Lesner	Venice, N. Y	Mar. 12, 1836
Pump, forcing	John F. Rodgers	Waterford, N. Y	Mar. 30, 1836
Pump, forcing	Nathan Chapin	Penn Yan, N. Y	Mar. 30, 1836 Nov. 6, 1810
Pump, forcing, for fire engines	Eli Smith	Palmer, Mass	Aug. 12, 1828
Pump, forcing, quadruple	l 	Ellicott, N. Y Otsego, N. Y	Mar. 7, 1811
Pump, forcing, reverse Pump, forcing, and suction	Levi Gray	Westminster, Vt	Sept. 11, 1823
Pump, forcing, and suction	John F. Rogers	Waterford, N. Y	Feb. 27, 1833
Pump, force for wells, constructing		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	'
the parts	Thos. W. H. Moseley	Paris, Ky	Sept. 30, 1839
Pump, force, double acting	Joel Farnam	Stillwater, N. Y	Dec. 10, 1841
Pump, frictionless	Edward Whitfield	New York	June 2, 1836
Pump, frictionless	Charles V. Card	New Bedford, Mass.	Nov. 26, 1836
Pump, gauge	James D. Woodside	Washington, D. C	July 14, 1834
	Luther Holland	Belchertown, Mass.	Mar. 28, 1810
Pump, horizontal	Luther Holland	Beichertown, Mass.	Sept. 10, 1811
Pump, impellant	Sol. Thayer	Massachusetts	June 9, 1801
Pump, labor saving	Daniel Smith	China, N. Y	June 13, 1831
Pump, lifting	John Renfrew	Fayetteville, Pa	June 16, 1846
Pump, liquor	Henry Rogers		Sept. 17, 1842 May 22, 1826
Pump, for machinery			
Pump, metallic	Jededian Deckwith	Saratoga, IV. I,	Da. w., 2300



HTWALULIUS AND PHOCHAGOS.

	PATENTINA.	antaitistes.	WHIST LINES.	
inversions or discoveries.	PATENTEES.			
Pamp, oblique	Jonathan Hunt	New York	June 7, 1700	
Pump, package	John A. Smith	Windham, Ch	Feb. 3, 1880	
Pamp, pendulum, double bored	Atkinson Farra	Montgomery, Pa	Dec. 5, 1899	
Pump, pendulum, and cog		New York	Aug. 6, 1819	
Pump, preventing water from		_ , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	36 11 1007	
freezing		Townsend, Mass	Mar. 11, 1837	
Pump, rotary		Hyde Park, N. Y	July 14, 1830 Jan. 28, 1831	
Pamp, rotary		Norwich, Charles N. V.	Aug. 3, 1833	
Pamp, rotary		Hyde Park, N. Y	Jan. 27, 183	
Pamp, rotary		Southeast, N. Y Poughkeepsie, N. Y.		
Pump, rotary	Isaac Hall	Cavendish, Vt		
Pump, rotary			Oct. 31, 1836	
Pump, rotary	Samuel A. Lee	Boston, Mass	Sept. 4, 1841	
Pump, sea motion		New York	Aug. 19, 1811	
Pump, for ships and mines,		Massachusetts	Nov. 29, 1799	
Pump, for ships		Pennsylvania	Dec. 22, 1801	
Pamp, for ships		1		
	N. Harlow, jr	Bangor, Mass	Aug. 30, 1811	
Pamp, for ships		New York	Oct. 31, 1829	
Pump, for ships		Bath, Me	Sept. 8, 1837	
Pump, for ships	Thomas Odiorne	Portsmouth, N. H	i Aug. 27, 1835	
Pump, for ships, mode of working	Manuel Francis	Boston, Mass	July 7, 1822	
Pump, spear for, horizontal, cir-			36 00 1017	
_ cular valve	Eben. Leman	Bosten, Mass	May 23, 101	
Pump, spiral	Cotton Foss	Perry, Ohio	Rug. 4, 1032	
Pump, spring	William Finn	Baltimore, Md	Mar 2 1990	
Pump, stone, water tight joints	Abraham Van Vorhes.	Hebardsville, Ohio Pennsylvania	Tune 96 1797	
Pumping ships, pendulous bellows		remmsylvama	June 20, 170	
Pumping ships, wheel power	S. Town & R. W. Oli-	N. Granville, N. Y.	April 8, 1826	
Pumping ships, wind power	Thomas Brownell	New York	Mar. 23, 1827	
Pump, suction	Daniel Watson	Plymouth, Mass	Mar. 4, 1808	
Pamp, suction	John Edwards	Urbana, Ohio	May 25, 1818	
Pump, suction	Levi Gray	Springfield, N. Y	May 9, 1820	
Pump, suction	Daniel Johnson	Boston, Mass	April 21, 1824	
Pump, suction	Allen H. Mathes	Madisonville, Tenn	Dec. 31, 1833	
Pamp, suction	Elijah Whiton	Groten, Mass	Oct. 2, 1834	
Pump, suction	Thomas C. Barton	Washington, N. J	Feb. 20, 1836	
Pump, suction, and fire engine	Isaiah Jennings	Philadelphia, Pa	April 11, 1814	
Pump, suction, and force	Abm. Kasslar	Canajoharie, N. Y	Oct. 28, 1837	
Pump, suction, and force	Jona. Stevens	Newark, N. J	Dec. 20, 1837	
Pump, suction, and force	James J. Rice	Salina, N. Y		
Pump, suction, and force	Andrew Bailey	Jefferson, Ohio		
Pump, suction, and lifting		Litchfield, Ct	Dopt. 20, 100	
Pump, suction and force, double		Stillwater, N. Y	Dec. 14, 1841	
acting	Joel Farnam	Troy, N. Y	1	
Pump, tide, bason	Apollos Kinsley	Connecticut		
Pump, valves for		Newburg, Pa		
Pump, valves, elliptic	James Baker	Charlestown, Mass.		
Pump, valve of	C. D. Van Allen	Petersburg, Va	July 8, 1841	
Pump, valves and piston of	John Clark	Portsmouth, Va	Oct. 11, 1841	
Pump, valves, spring or drop	Eli Kendall	Ashby, Mass	June 22, 1832	
Pump, valves, wing	William Francis	Boston, Mass	July 11, 1818	
Pump, ventilating	Rh. Robotham		Oct. 10, 1891	
Pump, vibrating	Sampson Davis	Derby, Vt	Feb. 25, 1836	
Pump, and water pipe	Mark Reeve	Pennsylvania	Dec. 14, 1798	
Pamp, wind		Maury co , Tenn	Dec. 31, 1833	
Pamp, wind power		Kent. Ct	Mar. 8, 1820	
Raising and forcing water		Springfield, Ill	Mar. 21, 1846	
Raising water		New York	April 27, 1798	
Raising water	los. Humpley	New York	Jan. 10, 1799	



ENVIRONMENTS OR DISCOVERIES.	PATENTEES.	REGIDENCE.	WHEN ISSUED.
Raising water	. William Palmer	New York	Aug. 25, 1801
Raising water	Benjamin Cooley	Massachuseus	Feb. 1, 1981
Raising water	William Harrington	Paris, Ky	Aug. 28, 1804
Raising water	Seraphim Billing	Baltimore, Md	Nov. 7, 1801
Raising water	Samuel Currey	Williamson co., Ten.	April 24, 1816
Raising water	Jacob Hartman	Lampeter, Pa	Mar. 31, 1814
Raising water	N. N. Destreham	Charles Parish, La	Dec. 13, 1821
Raising water	Social Rolph	Albany, N. Y	Nov. 16, 1822
Raising water	William Dabney	Richmond, Va	Nov. 20, 1894
Raising water	Scott Fickett	New York	June 11, 1825
Raising water		D13	T. 1 07 1000
Daining wester	Bloodgood	Poughkeepsie, N. Y	July 21, 1829
Raising water	Lenmon Parmelee Levi Disbrow & John	Poughkeepsie, N. Y.	Oct. 1, 1830
Raising water		New Vork	A 00 1090
Poising Water	Sullivan	New York Brock's Gap, Va	Now 7 1939
Raising water		Poland, Me	May 6 1836
Raising water	Jesse C. Wood	Ephrata, N. Y	Tune 99 1836
Raising water	David L. Myers and	Epinaa, IV. I IIII	June 22, 1000
	Samuel Myers	Christianburg, Va	July 28, 1838
Raising water, apparatus for pro-		O	July 20, 100
ducing vacuum.	of Pierre Ravard	Paris, France	Dec. 17, 1840
Raising water, by atmospheric		•	
pressure	Samuel McCune	Wilmington, Ohio	Aug. 25, 1829
Raising water, conveying	David G. Colburn	Cayuga co., N. Y	May 12, 1834
Raising water for domes'c purposes	Liscomb Knapp	Brighton, N. Y	May 22, 1826
Raising water, endless chain buck-			
eta	John Dutton	Aston township, Pa.	Oct. 9, 1841
Raising water, and forcing	Sam. Finlay, B. Morse	01-1	0 . 0 .019
Daining makes and Coming	and S. E. Morse	Charlestown, Mass.	Oct. 3, 1817
Raising water, and forcing	Elisha Vance	Wilmington, Ohio	June 7, 1838
Raising water from fountains	John Manning Pierre Desire Henry	New Hampshire	April 10, 1798 Jan. 9, 1841
Raising water, hydraulic wheels for Raising water for mills	Aaron Brookfield	New Orleans, La New Jersey	
Raising water by revolving wheel		Allenton, Pa	
Raising water and sawing timber.	John Winter	Brutus, N. Y	Nov. 15, 1825
Raising water to set machinery in			,
motion	David W. Hunt	Newburyport, Mass	June 12, 1835
Raising water by steam	William Baley	Nelson county, Ky.	Feb. 4, 1817
Raising water by steam	James Ambler	Berlin, N. Y	
Raising water by steam	George Fleming	Gouchland, Va	April 24, 1827
Raising water by steam	Joseph S. Fox	Οιω, Ν. Υ	April 5, 1828
Raising water by steam engine	David Colver	Deer Creek, Ohio	June 6, 1839
Raising water by successive pumps		Powhaitan co., Va	Feb. 15, 1823
Raising water for turning mills	William Mead	Pittsburgh, Pa	Nov. 19, 1833
Raising water by weight	William Bushnell and	Hamishum Wa	A 20 1991
Daining mater has mainly	J. Altoffer	Harrisburg, Va	Aug. 30, 1821
Raising water by weight	David Hess	Shepardstown, Va	July 1, 1836 Feb. 6, 1813
Raising water from wells	George Patterson	Philadelphia, Pa	
Raising water from wells		Egremont, Mass	
Raising water from wells Raising water from wells	Elijah Willard	Salisbury, Conn	
Raising water from wells		Egremont, Mass Madison, N. Y	
Raising water from wells		Mendon, N Y	Aug. 20, 1828
Raising water from wells	Samuel Smith	Mendon, N. Y	Mar. 17, 1829
Raising water by wind	Samuel Morey	New Hampshire	April 11, 1795
Ram, hydraulic			
, •	Hallet	New York	Aug. 3, 1809
Ram, hydraulic*	Benjamin S. Benson	Harford, Md	Dec. 26, 1843
Ram, water	Erastus W. Ellsworth	East Windsor, Ct	Dec. 6, 1845
Soda apparatus.—See Class 4.			
Boda fountain.—See Class 4.	l		
Unangen golf-gotine for distall	H Innes Recold and	í	
Sparger, self-acting, for distributing water upon malt in the mash-tub	II. Joues Dicor mind	D1 2 1 1 1	0 10/6

^{*}Antedated Aug. 5, 1845; additional improvement Oct. 29, 1846.



HYDRAULICS AND PNEUMATICS.

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INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Stoppers and plugs	Matthew Vassar	Poughkeepsie, N. Y.	June 27, 1846
Stops, elastic water, for checking the force of water in pipes	Horatio Allen	New York, N. Y	
Syphons, constructing, and mode	George Johnson	New York	Dec. 23, 1841
of charging them	James Gray	Fredericksburg, Va.	April 25, 1838
Tide mills	Jona. Dickerson	Morris county, N. J.	July 30, 1791
Tide mills	John P. Swain and Ja-		May 17, 1810
Tide mills	cob Skinner Francis Rittal	Lincoln, Mass	Jan. 28, 1815
Tide mills	Josiah Cleaveland	St. Mary's co., Md.	Oct. 22, 1816
Tide mills	Robert Spedden	Talbot, Md	Aug. 1, 1827 Dec. 30, 1820
Tide mills, and current Tide mills, and current	Henry Allen	Fayette county, Ten. Southampton, Va	Sept. 25, 1822
Tide mills, and current	Jos. Wallace	Hartford, Ky	Sept. 11, 1829
Tide mills, and current	James Bennett	Vigo county, Ind	Aug. 10, 1832 Mar. 18, 1803
Tide motion applied to machinery Tide power	John Staple, jr Henry M. Western	New York New York	Dec. 23, 1829
Tide power	Henry B. Fernald	Portland, Maine	Aug. 17, 1835
Ventilating machine	George Harley & John		Tune 1 1929
Ventilator for rooms	Sedgwick James M. Burton	Philadelphia, Pa Salem, Ga	June 1, 1832 Aug. 17, 1839
Water and animal power	John A. Wiszt	Philadelphia, Pa	May 10, 1844
Water, applying to saw mills	William Kendall	Fairfield, Maine	Jan. 12, 1831
Water, applying	J. Hinds, M. B. Ball, and S. Pike	Troy, N. Y	May 14, 1836
Water blast	Joseph Ruggles	New Milford. Conn.	June 6, 1811
Water, conveying	Samuel Hant	Baltimore, Md	
Water, cooling, and other fluids Water, drawing from forebays and	William Thornton	Washington, D. C.	
discharging on wheels	J. P. Espy & A. Young	Philadelphia, Pa Egremont, Mass	Sept. 11, 1829
Water, drawing from wells Water, drawing from wells	Elijah Willard Jehiel J. Farrand	Pert Byron, N. Y.	Jan. 7, 1846
Water, elevating, and other liquids		Middletown, Conn .	Jan. 21, 1833
Water, mode of applying to propel		Utica, N. Y	May 19, 1840
water, mode of supplying houses	William Baker William Bryant	Davidson co., Tenn.	Oct. 25, 1832
Water power	Amos Thayer	Albany, N. Y	May 1, 1818
Water power	Ebenezer Bassford	Jay, Maine Fabius, N. Y	July 10, 1834. Sept. 9, 1835
Water power, application to mills Water power, application to lever			
Water power, steam, &c., applied	John Abbott Jehiel W. Dart and	Reading, Mass	Nov. 19, 1833
to mills.	William Webster	Truxton, N. Y	Jan. 21, 1831
Water power, economy of	Timothy P. Anderson	Hardwick, Mass	Dec. 23, 1833
Water power, increasing, by at- mospheric pressure	Samuel L. Holmes	West Chester, N.Y.	Dec. 8, 1828
Water power to machinery	Meredith Mallory	Benton, N. Y	Mar. 3, 1817
Water power to mills	Josiah W. Newbury.	Luzerne, Pa	June 28, 1815
Water power to a number of wheels, &c	Henry Crenshaw	Anderson district, SC	Dec. 28, 1832
Water power, saving	Aaron Foot	Williamstown, Mass	Jan. 4, 1831
Water pressure, for propelling ma-	a 26 and	William Daniah NC	Mar 10 1000
Water, purifying	George M. Gibbs Samuel Griffith	Williams' Parish NC Rensselaer co., N.Y.	Feb. 1, 1817
Water power, supplying to build-			Oct. 16, 1840
ing to extinguish fires.	of Isaac Lowell,dec'd	Pendleton, S. Newark, N. J	Tul- 12 1044
Water, regulating the supply of	John Cochrane Isaac Garretson	Belle Fontaine, Ohio	July 13, 1844 Mar. 25, 1826
Water, steam, and wind power Water tank, floating			
	McArdle	Brooklyn, N. Y	Feb. 5, 1833
Watering machine, for cattle	Moses Smith	Massachusetts	July 10, 1824
Watering machine, for cattle Water wheel	Ephraim Hubbel	Middlebury, Vt	May 1, 1806

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED
Water wheel	Simon Willard, jr	Hudson, N. Y	Dec. 1, 1801
Water wheel	Jona. Miner	Saratoga, N. Y	
Water wheel	Aaron Reuck	Chillicothe, Ohio	
Water wheel		Kennebec, Mass	
Water wheel	Abm. Sands	Georgetown, D. C	Aug. 28, 1811
Water wheel	Jos. Atkinson	Amherst, Mass	Sept. 5, 1811
Water wheel	Elisha Mack	Sheffield, Mass	Nov. 2, 1811
Water wheel	David Loring	Canandaigua, N. Y.	Dec. 31, 1813
Water wheel	David Cooper	Jericho, N. Y	May 12, 1814
Water wheel	George Peck	Whitestown, N. Y .	April 26, 1815
Water wheel	Benjamin Thomas	Washington, D. C	
Water wheel	Ira Griswold	Granville, Conn	
Water wheel	Amos Thayer	Albany, N. Y	July 7, 1817
Water wheel	Charles A. Busby	New York Davies co., Ind	Oct. 25, 1817
Water wheel	John Evans	Davies co., Ind	April 21, 1818
Water wheel	Amos Thayer	Albany, N. Y	May 1, 1818
Water wheel	John Edwards	Urbana, Ohio	May 25, 1818
Water wheel		Newbury, Vt	April 29, 1819
Water wheel	Elisha Hale	Baltimore, Md	July 5, 1020
Water wheel	David Beauchamp	Elizabethtown, Va	Sant 07 1991
Water wheel	Charles Goddard	Sabine Hall, Va	Feb. 8, 1823
Water wheel	Adolphus Allen John D. Wilson	Troy, Pa	
Water wheel	Jos. Torrey	Ravenna, Ohio	
Water wheel	John Bell	Sycamore town'p, O.	
Water wheel	Abel Greenleaf	Mexico, N. Y	June 5, 1828
Water wheel	Orpheus Thompson	Jericho, Vt	Dec. 6, 1828
Water wheel	John R. Wheeler	Pittsford, N. Y	Mar. 15, 1830
Water wheel · · · · · · · · · · · · · · · · · ·		Ogdensburg, N. Y	April 20, 1836
Water wheel	James Johnson	Fairbanks town'p, In	Oct. 1, 1830
Water wheel	Clark Willson	Swanzev. N. H	Oct. 1, 1830
Water wheel	Henry Averill	Richland, N. Y	Oct. 21, 1830
Water wheel	Martin Coney	Portland, N. Y	April 12, 1831
Water wheel	James McConnel	Shenango, Pa	Dec. 13, 1832
Water wheel	John Moffit	Richmond Ohio	
Water wheel	Theodorus Loomis	Athens, Pa	Mar. 14, 1833
Water wheel	Andrew M. Braley and	7.1	3.6 . 7 1022
	John L. Dryer	Montgomery co., Ind	
Water wheel	Ebenezer A. Lester	Boston, Mass	Sept. 13, 1833
Water wheel	Ezekiel W. McGuier		Sept. 14, 1833
Water wheel	and Joel Dewey, jr Isaac Van Gorder	Waterford, N. Y Warren, Ohio	Dec. 16, 1833
Water wheel	Zerah Blakely	Wilkeville, Ohio	Dec. 31, 1833
Water wheel	Elisha Bushnell	Sodus, N. Y	Jan. 30, 1834
Water wheel	William Shepard	Gibson township, Pa.	
Water wheel	Benjamin Dugdale	Trenton, N. J	May 15, 1834
Water wheel		Middletown, Va	Jan. 31, 1834
Water wheel		Dorchester, Mass	Feb. 28, 1834
Water wheel		Richland, N. Y	June 18, 1834
Water wheel	Garci G. Heermance.	Coxsackie, N. Y	Sept. 30, 1834
Water wheel		Concord, N. H	Mar. 11, 1835
Water wheel	Alvin Darling & Bar-		
	ton Darling	Billingham, Mass	April 3, 1835
Water wheel	William Merril		May 16, 1835
Water wheel	Isaac Powell	Lawrence, N. Y	July 17, 1835
Water wheel	William L. Elgac	Winchester, N. H.	Feb. 10, 1836
Water wheel	Frederick Wingate	Augusta, Maine	Mar. 4, 1836 Mar. 12, 1836
Water wheel	Abraham Straub	Milton, Pa	Mar. 30, 1836
Water wheel	Carey S. Mercer	Franklin, Md	April 11, 1836
Water wheel	J. T. Towne William Hitchcock	Mount Morris, N.Y. Spencer, N. Y.	May 23, 1836
Water wheel		Foresteville Tone	Tune 2, 1839
Water wheel	Henry Allen Orson Waldo	Fayetteville, Tenn Newark, N. Y	June 25, 1836
Water wheel	Charles Kenzie	Troy, N. Y	July 1, 1836
	CHATINA SEATERCE	, 	

INVENTIONS OR DISCOVERIES.	PATENTEES.	BESIDENCE.	when issued.
Water wheel	Samuel Garrett	Loudonville, Ohio	July 2, 183
Water wheel		Augusta, Maine	July 2, 183
Water wheel	Nehemiah P. Stanton.	Syracuse, N. Y	May 22, 183
Water wheel		Sylubusy 21. 1	, 200,
	W. Engle	Wayne township, O.	July 31, 183
Water wheel	. Charles Goulding	Mobile, Alabama	Dec. 15, 183
Water wheel	. John W. Moon	Roxbury, N Y	Feb. 15, 183
Water wheel	John R. Wheeler	Seneca Falls, N.Y	April 14, 1836
Water wheel	John Mumma	West Alexandria, O.	
Water wheel	Samuel B. Howd	Geneva, N. Y	July 26, 1836
Water wheel		Zanesville, Ohio	Dec. 31, 1830
Water wheel		~	
M7 . 1 .1	& Jos.M. Whitcomb	Grafton, Vt	Dec. 31, 1836
Water wheel	Eliza Martineau, ad'x	7711 . 1 27 77	4 "110 100
Water wheel	of Jno. Martineau, de'd		April 18, 183
	William C. Bishop	Ovid, N. Y	Sept. 5, 1839
Water wheel		New York	Oct. 18, 183
TV GROE WINGER	William Ashby	Rordentown N T	Mar. 25, 1840
Water wheel	Joseph Hanchett	Bordentown, N. J Coldwater, Mich	July 15, 1840
Water wheel	Nelson Johnson	Triangle, N. Y	June 22, 184
Water wheel	Clark Lewis	Syracuse, N. Y	July 16, 1841
Water wheel	Jesse Taylor	Aurelius, N. Y	
Water wheel	John G. Garretson	Muhlenburg, Ohio	
Water wheel	. John L. Smith	Salina, N. Y	Dec. 10, 1841
Water wheel		Bangor, Maine	Dec. 31, 1842
Water wheel	William Lamb	Whitestown, N. Y.	April 11, 1849
Water wheel	Lemuel W. and Geo.		•
	W. Blake		
Water wheel	Samuel B. Howd		
Water wheel		Manallen towns'p,Pa	
Water wheel	. Abijah Woodward		May 12, 1845
Water wheel		Albier N. X.	July 2, 1849
Water wheel	Reuben Rich	Albion, N. Y	July 8, 1849
Water wheel	Elí B. Lansing Jesse Taylor		July 16, 1849 July 20, 1849
Water wheel	Samuel I. Velentine	Rangor Maine	July 23, 1849
Water wheel	Samuel L. Valentine Joseph Durkee	Binghampten, N. Y.	Aug. 25, 1849
Water wheel	Stiles Munger	Shawangunk, N. Y.	Feb. 10, 1843
Water wheel	Philip Wells		Mar. 4, 1843
Water wheel	Samuel Hopper		Mar. 21, 184;
Water wheel			June 24, 1843
(James Finlay, assignee		
Water wheel* \ldots \langle	of Whitlaw and Stir-	Paisley, England,	July 3, 1843
(rat.)	
Water wheel	Daniel H. Parsons	Chester, Ohio	July 12, 1843
Water wheel	John Gildwell	Northfield, Mass	Aug. 4, 184
Water wheel	Daniel Stearns	Rome, N. Y	Sept. 14, 184
Water wheel		Bath, IN. Y	Oct. 20, 184
Water wheel	Malaan Tabaaan	Richiana, N. Y	Mar. 20, 184
Water wheel	Albert Stimmen	Raundoneville, N. I.	Mar. 26, 184
Water wheel	Daniel Wasser	McKeenshure De	April 25, 184 June 10, 184
Water wheel	Daniel Weaver	Padhank Da	Aug. 12, 184
Water wheel	Roswell Cook	Elkland, Pa	Sept. 14, 184
Water wheel	J. D. Robinson	Peoria, Ill	Oct. 24, 184
Water wheel	Samuel L. Valentine		Dec. 12, 184
Water wheel	Theodore R. Timby		_ 50. 12, 104
		N. Y.	Sept. 27, 184
Water wheel †	James Gardner	South Lee, Mass	Jan. 16, 184
Water wheel	. Chadiah Aylesworth	Bainbridge, N. Y	Mar. 21, 184
Water wheel	John J. Springsteen	Oswego, N. Y	May 16, 184
Water wheel	James Leffel	Springfield, Ohio	May 21, 184
		Cato 4 Corners, N.Y.	

^{*} Date of patent in England, Sept. 23, 1841.

[†] Antodated July 16, 1844.

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INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Water wheel	R. C. Grant	Pomeroy, Ohio	July 26, 184
Water wheel*	William Dripps	Coatesville, Pa	Nov. 26, 1845
Water wheel	John Mecay	Millsborough, Pa	Dec. 26, 184
Water wheel	J. K. Millard	Town Hill, Pa	May 9, 1846
Water wheel	Christopher Hand	Port Elizabeth, N. J.	
Water wheel	Elisha Hale	Newark, N. J	Nov. 14, 1846
Water wheel	F. P. Haviland and E.		
TTT . 1 1 A 11 .1 1	Tuttle	Waterville, Maine	May 28, 1846
Water wheel, &c., adjusting boxes		New York, N. Y	Feb. 7, 1842
Water wheel, and applying water to		Boston, Mass	July 14, 1815
Water wheel, and applying water to			
Water wheel, and applying water to		Fairfield, Maine	Jan. 12, 1831
Water wheel, and applying water to		Clinton, Ohio	Mar. 9, 1831
Water wheel, and applying water to		Bath, N. H	Sept. 28, 1831
Water wheel, and applying water to	Richard Walker	Milton, N. H	Mar. 12, 1833
Water wheel, and applying water,	į		1
wind, or steam	Luther Copeley	New Lebanon, N. Y.	May 15, 1834
Water wheel, buckets for	William M. Eldridge	Philadelphia, Pa	Mar. 20, 1834
Water wheel, bucket, spouts for	3	1 .	1 .
admitting water on	Ira Staubrough	Arcadia, N.Y	Nov. 25, 1841
Water wheel, canal, race	Arthur Henrie	Miami, Ohio	Oct. 28, 1818
Water wheel, cast iron, and sluice		Wallingford, Conn	May 10, 1805
Water wheel, and casting	Calvin Wing	Gardiner, Maine	Oct. 22, 1830
Water wheel, chain action	Sanford Reynolds	Pitcher, N. Y	Dec. 15, 1832
Water wheel, chain bucket	John Dutton, jr	Ashton, Pa	Feb. 26, 1840
Water wheel, chain paddles	Davidson Myers	Benton, Mo	Sept. 4, 1832
Water wheel, combined	Emerson G. Covel	Glenn's Falls, N. Y.	Feb. 20, 1844
	Roswell Wilcox		April 19, 1826
Water wheel, conical		Franklin co., Ohio Lanier t'nship, Ohio.	April 25, 1846
Water wheel, conical percussion Water wheel, current	James Denison	Greenwich, Mass	Sept. 22, 1837
	Warren P. Wing		April 2, 1841
Water wheel, current	Noahdiah W. Hubbard		Oct. 26, 1842
Water wheel, current	William Miles	Boonsborough, Md.	
Water wheel, current	John Carnagy	Tully, Mo	April 10, 1844
Water wheel, current or tide	F. A. Southworth	St. Louis, Mo	Jan. 28, 1840
Water wheel, current, raising and	<i>a</i> , , , , , , , , , , , , , , , , , , ,	787. 1 34.	T 00 1022
lowering	Charles F. Paine	Winslow, Maine	June 29, 1833-
Water wheel, curved tube, for		m Engine, Class 6.	
Water wheel, driving, and shoot.	Lewis Waterbury and		1005
	Talmage Waterbury		April 12, 1834
Water wheel, double centre	William March	Sand Bank, N. Y	July 14, 1846
Water wheel, elevating water	William Smith	Gloucester, N. J	Aug. 12, 1808
Water wheel, float	Stacy Costill	Philadelphia, Pa	Oct 17, 1827
Water wheel, floating	John Owings	Baltimore, Md	Sept. 9, 1816
Water wheel, floating valves	Israel J. Richardson	Geneva, N. Y	Sept. 26, 1816
Water wheel, with floats working		·	•
upon hinges	Joel Eastman	Bath, N. H	Feb. 18, 1831
Water wheel, flume	Walter Brewster	Connecticut	June 7, 1798
Water wheel, and flume	Asa Messer	Providence, R. I	May 18, 1826
Water wheel, and flume	Hiram Munger	Chickopee, Mass	Nov. 10, 1846
Water wheel, flutter, applying wa-	Triding triding cit.	стокорсе, паша	21011 20,
ter to	James Stewart	Robertson co., Tenn.	Oct 24, 1828
Water wheel, flutter, applying wa-	James Stewart	Robertson co., Tenn.	Oct. 24, 2000
vacer wheer, nutter, applying wa-	E D Deletera	gi a.	No. 21 1930
ter to	E. B. Pritchard	Scriven county, Ga.	May 31, 1000
Water wheel, flutter, applying wa-	T	O N N	T.J. 1 1917
ter on	Jarvis Smith	Gueen's co., N. Y	July 1, 1011
Water wheel, with folding ladle	(D) ****)	T 46 :	0. 05 1929
boards	Thomas Winslow	Jay, Maine	UCI. 20, 1002
Water wheels, head of water ap-	D. M. Kenzie, M. L.		
plying.	Barber, S. Dean, and		- 10 1000
	J. McNaughton	Caledonia, N. Y	June 19, 1826
TT . 1 11		Mason sounts Vo	Dec. 19, 1828
Water wheel, hinged	Matthew D. Brown	mason county, va	DCC. 10, 120
Water wheel, horizontal	James Macomb	Princeton, N. J.	Aug. 20, 1131
Water wheel, hinged	James Macomb	Princeton, N. J	Aug. 20, 1731 Feb. 14, 1799

^{*}Antedated May 26, 1945.

Water wheel, horizontal. Abraham Lippitt. Water wheel, horizontal. Shelden Stoddards. John Nuckolls and Solomon P. Wheeler. Chapman Warner. Chapman Warner. Water wheel, horizontal. Samuel Curis. George Denning. Burlington, Vt. Waterford, N. Y. Water wheel, inclined. Wate				TT
Water wheel, horizontal. Water wheel, horizontal, curb, cass iron. Water wheel, horizontal, and perpendicular. Water wheel, inclined. Water wheel,	REVENTIONS OR DISCOVERIES.	PATENTEEQ.	RESIDENCE.	WHEN MAGED.
Water wheel, horizontal. Water wheel, horizontal, curb, cass iron. Water wheel, horizontal, and perpendicular. Water wheel, inclined. Water wheel,	Water wheel, horizontal	John Osborn, jr	Litchfield, Conn	May 29, 1911
Water wheel, horizontal Nisa Dailbank Newark, N. J. Sept. 25, 181 Water wheel, horizontal Sias Dalie Cumberland, Mass. May 28, 183 Water wheel, horizontal Ebenezer Thompson. O. Lathan, L. Beanet, and J. Green. Ashaham Lippitt. Shelden Stoddards. James Water wheel, horizontal Shelden Stoddards. James Water wheel, horizontal Shelden Stoddards. James Water wheel, horizontal Ashaham Lippitt. Windsor, Ohio. Nov. 2, 183 Water wheel, horizontal Ashaham Lippitt. Mindsor, Ohio. Nov. 2, 183 Water wheel, horizontal Samel Curris Eagle, N. Y. Sept. 22, 183 Water wheel, horizontal Samel Curris Eagle, N. Y. Sept. 22, 183 Water wheel, horizontal Samel Curris Eagle, N. Y. Sept. 22, 183 Water wheel, horizontal pedal. J. J. Giraud. Baltimore, Md. Feb. 3, 183 Water wheel, inclined. William H.Squiresand Coral C. White. Coral Coral C. White. Coral Coral C. White. Mater wheel, inclined. James Wood. La Grange, Tenn. Feb. 26, 183 Water wheel, inclined. James Wood. La Grange, Tenn. Feb. 26, 183 Water wheel, inclined. James Wood. La Grange, Tenn. Feb. 26, 183 Water wheel, inclined. James Wood. La Grange, Tenn. Feb. 26, 183 Water wheel, inclined. James Wood. La Grange, Tenn. Feb. 26, 183 Water wheel, inclined. John T. Gilmore. Hartwick, N. Y. May 2, 183 Water wheel, inclined. John T. Gilmore. Feb. 26, 183 Water wheel, letting on water. Ass Danielson. Otsego, N. Y. May 2, 183 Water wheel, letting on water. Ass Danielson. Otsego, N. Y. May 2, 183 Water wheel, letting on water. Ass Danielson. Otsego, N. Y. May 2, 183 Water wheel, letting on water. Ass Danielson. Otsego, N. Y. May 2, 183 Water wheel, letting on water. Ass Danielson. Otsego, N. Y. May 1, 184 Water wheel, letting on water. Ass Danielson. Otsego, N. Y. May 1, 184 Water wheel, letting on water. Ass Danielson. Otsego, N. Y. May 2, 184 Water wheel, letting on water. Ass Danielson. Otsego, N. Y. May 1, 184 Water wheel, letting on water. Ass Danielson. Otsego, N. Y. May 1, 184 Water wheel, lower mill) Water wheel, overshot. John Green, sen. Virginia. May 1, 184 Water wheel, perpellin				Dec. 15, 1814
Water wheel, horizontal Water wheel, inclined Water wheel, incli				
water wheel, horizontal amuel Curiss George Deming Burlington, Vt. July 22, 181 Water wheel, inclined. William Purnell. John Palmer. Coral C. White. Water wheel, inclined Water wheel, inclined Abaham Baker Dalton, Ohio Age, 4, 183 Water wheel, inclined Water wheel, inclined Water wheel, inclined Abaham Baker Dalton, Ohio Sept. 23, 183 Water wheel, letting on water Water wheel		Richard A. Donaldson	•	,
Water wheel, horizontal curb, cast iron Water wheel, horizontal, curb, cast iron Water wheel, horizontal, curb, cast iron Water wheel, inclined. Water wheel, inclined. Water wheel, inclined. Water wheel, inclined Wate	,	and Jos. L. Wheeler	Newark, N. J	Sept. 25, 1815
Water wheel, horizontal curb, cast iron Water wheel, horizontal, curb, cast iron Water wheel, horizontal, curb, cast iron Water wheel, inclined. Water wheel, inclined. Water wheel, inclined. Water wheel, inclined Wate	Water wheel, horizontal	Silas Dalie	Cumberland, Mass	May 28, 1816
Water wheel, horizontal. Water wheel, horizontal, and perpendicular. Water wheel, inclined.	Water wheel, horizontal	Horace Howard	Wooster, Ohio	Dec. 26, 1821
Water wheel, horizontal. Water wheel, horizontal, and perpendicular. Water wheel, inclined.	Water wheel, horizontal	Ebenezer Thompson	Manchester, N. Y	Mar. 24, 1825
Water wheel, horizontal. Water wheel, horizontal, curb, cast iron. James Pilling. Water wheel, horizontal pedal. J. J. Giraud. Water wheel, horizontal pedal. Water wheel, inclined. Water wh	Water wheel, horizontal		Oneida county, N. Y.	May 28, 1825
Water wheel, horizontal. Water wheel, horizontal, curb, cast iron. Water wheel, horizontal pedal. Water wheel, inclined. Water whe	Water wheel, horizontal	Abraham Lippitt	Windsor, Ohio	Nov. 2, 1825
Water wheel, horizontal. Water wheel, horizontal cyclo, cast iron. James Pilling. Water wheel, horizontal pedal. J. J. Giraud. Water wheel, inclined. Dohn T. Gilmore. P. J. Schuyler and E. D. Hitchoock. Asa Danielson. Water wheel, letting on water. Samuel Sperry. Howald water wheel, letting on water. Samuel Sperry. Howa			Jackson t'nship, Pa.	May 28, 1832
Water wheel, horizontal John Nuckolls and Solomon P. Wheeler. Dolomon P. Wheeler. Dolor Not per seming. Dolo		Asahel Baron		June 4, 1832
Water wheel, horizontal. Water wheel, horizontal. Water wheel, horizontal. Water wheel, horizontal. Water wheel, horizontal, curb, cast iron. Water wheel, horizontal pedal. Water wheel, inclined. Dames Pilling. Water wheel, inclined. William Purnell. Giles co., W. Tenn. Cincinnati, Ohio. Dec. 29, 181 Ledyard, N. Y. Feb. 5, 183 Perry, Ohio. Aug. 4, 183 Dalton, Ohio. Sept. 23, 184 Dalton, Ohio. Sept. 24, 185 Water wheel, letting on water. New York water, Obec. 20, 182 Water wheel, letting on water. Water wheel, letting on water. Water wheel, elting on water. Water wheel, indlined. Water wheel, indlined. Water wheel, oblique. Water wheel, overshot. Dohn Green, sen. John Green, sen. Virginia. Warer wheel, penstocks for. Water wheel, penstocks for. John Green, sen. Virginia. Water wheel, pens	Water wheel, horizontal		•	·
Water wheel, horizontal. Water wheel, horizontal, curb, cast iron	Water wheel, horizontal		Oxford, N. J.	Sept. 22, 1837
Water wheel, horizontal, curb, cast iron			Eagle, N. Y.	Dec. 15, 1837
Water wheel, horizontal, curb, cast iron			Burlington, Vt	July 22, 1819
water wheel, horizontal pedal. Water wheel, horizontal pedal. Water wheel, horizontal, and perpendicular. Water wheel, inclined. James Wood. La Grange, Tenn. Feb. 3, 183 Baltimore, Md. Feb. 3, 183 Giles co., W. Tenn. Cincinnati, Ohio. Dec. 29, 181 Ledyard, N. Y. Feb. 5, 183 May 2, 183 May 2, 183 Water wheel, inclined. John T. Gilmore. Payetteville, N. C. Water wheel, inclined. John T. Gilmore. Payetteville, N. C. Water wheel, letting on water. John T. Gilmore. Payetteville, N. C. Batliwater, N. Y. Dec. 21, 184 Water wheel, letting on water. Samuel Sperry. Nanhville, Tenn. Nov. 9, 182 Water wheel, letting on water. Jacob Ammon. Michael Hildebrand. Mater wheel, mill, (water mill). Water wheel, mill, (water mill). Jacob Perkins. New York. Nov. 10, 182 Samuel Bronwer. New York. Nov. 10, 183 Water wheel, mill, (water mill). John Owings. Water wheel, mill, (water mill). John Owings. Water wheel, overshot. John Green, sen. Virginia. New York. Apr. 1, 184 Apr. 1, 184 Apr. 2, 183 Cotton Foss. Parry, Ohio. Aug. 4, 183 Ledyard, N. Y. Feb. 5, 185 Aug. 4, 183 Dalton, Ohio. Sept. 23, 184 Water, N. Y. Dec. 21, 184 Dec. 31, 184 Water wheel, letting on water. Samuel Sperry. Nanhville, Tenn. Nov. 9, 182 Water wheel, letting on water. Jacob Ammon. Rockingham, Va. May 16, 181 Otsego, N. Y. May 16, 181 New 16, 181 New 16, 181 New 16, 181 Nov. 10, 181 Cotton Foss. Perry, Ohio. Agentary, Negoton. Se			,,	July 1030
Water wheel, horizontal pedal. Water wheel, horizontal, and perpendicular. Water wheel, inclined. Water wheel, letting on water. Water wheel, letting on water. Samuel Sperry. Thomas Rey. Water wheel, letting on water. Michael Hildebrand. Water wheel, mill, (water mill). Water wheel, overshot. Water wheel, overshot. Water wheel, overshot. John Green, sen. June 11, 18, 10, 181 Cincinnati, Ohio. La Grange, Tenn. Feb. 26, 183 Perty, Ohio. La Grange, Tenn. Feb. 26, 183 May 2, 183 Baltimore, Md. Feb. 5, 183 Perty, Ohio. Aug. 4, 183 Balton, Ohio. Sept. 23, 184 Way 2, 183 Balton, Ohio. Sept. 23, 184 Samuel Sperry. Naanville, Tenn. Nov. 9, 189 Water wheel, letting on water. Jacob Ammon. Samuel Sperry. Nawnille, Tenn. Nov. 9, 189 Water wheel, etting on water. Samuel Sperry. Naanville, Tenn. Nov. 9, 189 Water wheel, etting on water. Samuel Sperry. Naenville, Tenn. Nov. 9, 189 Water wheel, etting on water. Samuel Curtis. Samuel Revelle, Recome. Samuel Sperry. New York. Sept. 28, 183 New York. Sept. 28, 183 New York. Aug. 29, 183 Sept. 28, 183 New York. Aug. 29, 183 Sept. 28, 183 Sept. 28, 183 New York. Aug. 29, 183 Sept. 28, 184 New York. Aug. 29, 183 Sept. 28, 184 New York. Aug. 29, 183 Sept. 28, 184 Aug. 29, 183 Sept. 28, 184 Aug. 29, 183 Sept.			Waterford, N. Y	Feb. 3, 1834
Water wheel, inclined				
water wheel, inclined	Water wheel, horizontal, and per-			
Water wheel, inclined	pendicular	William Purnell	Giles co., W. Tenn.	Jan. 10, 1817
Water wheel, inclined	Water wheel, inclined			
Water wheel, inclined			o	200, 20, 1010
Water wheel, inclined			Ledvard, N. Y	Feb. 5, 1831
Water wheel, inclined	Water wheel, inclined			
Water wheel, inclined				
Water wheel, inclined			Hartwick, N. Y	
Water wheel, inclined			Dalton, Ohio	Sept. 23, 1843.
Water wheel, letting on water As D. Hitchcock Stillwater, N. Y Dec. 20, 182 Water wheel, letting on water As Danielson Otsego, N. Y May 16, 181 Water wheel, letting on water Jacob Ammon Rockingham, Va July 18, 182 Water wheel, letting on water Michael Hildebrand McMinn co., Tenn. Nov. 10, 182 Water wheel, letting on water Michael Hildebrand McMinn co., Tenn. Nov. 10, 182 Water wheel, letting the water on Water wheel, mill, (water mill) Samuel Bronwer New York Nov. 27, 181 Water wheel, mill, (water mill) Jacob Perkins New York Nov. 27, 181 Water wheel, mill, (water mill) John Owings Baltimore, Md Jan. 25, 181 Water wheel, overshot John Green, sen Virginia May 15, 183 Water wheel, overshot John Green, sen Virginia Mar. 5, 181 Water wheel, postocks for New April 15, 182 Water wheel, propelling Aretar A. Wilder Warsaw, N. Y May 12, 183 Water wheel, reacting John W. Henderson and John Clayford Calvin Wing Green Millburne, Maine April 14, 183 Water wheel, reacting Jos. C. Strode E. Bradford, Pa Millburne, Me Sept. 22, 183 Water wheel, reacting Jos. C. Strode E. Bradford, Pa Feb . 8, 183 Water wheel, reacting Jos. C. Strode E. Bradford, Pa Feb . 8, 183 Water wheel, reacting Jos. C. Strode E. Bradford, Pa Feb . 8, 183 Water wheel, reacting Jos. C. Strode E. Bradford, Pa Feb . 8, 183 Water wheel, reacting Jos. C. Strode E. Bradford, Pa Feb . 8, 183 Water wheel, reacting Jos. Russel Millburne, Me Sept. 22, 183 Water wheel, reacting Jos. Russel Millburne, Me Scopt. 22, 183 Water wheel, reacting Gideon Hotchkiss Windsor, N. Y Nov. 6, 183			Favetteville, N. C.	Dec. 31, 1842
Water wheel, letting on water. Water wheel, letting the water on. Water wheel, mill, (water mill). Water wheel, oblique. Water wheel, oblique. Water wheel, overshot. Water wheel, overshot, bucket for water wheel, overshot, bucket for water wheel, perpetual. Water wheel, penstocks for. Water wheel, penstocks for. Water wheel, propelling. Water wheel, propelling beats* Water wheel, reacting. Water whe	Water wheel, iron	P. J. Schuyler and E.		
Water wheel, letting on water. Michael Hildebrand. Samuel Curtis. Samuel Sperry. Michael Hildebrand. Samuel Curtis. Samuel Spery. Michael Hildebrand. Samuel Curtis. Samuel Spery. Michael Hildebrand. Samuel Spery. Michael Hildebrand. Samuel Spery. Michael Hildebrand. Samuel Bronwer. Thomas Ruble. St. Mary's, Ind. Nov. 10, 182 Sept. 28, 183 Aug. 29, 183 Aug. 29, 183 Aug. 29, 183 New York. New York. Nov. 27, 181 Water wheel, mill, (water mill). John Owings. Baltimore, Md. Jan. 25, 181 John Green, sen. Water wheel, overshot, bucket for Water wheel, porpelling. Water wheel, propelling. Water wheel, propelling. Water wheel, propelling beats* Water wheel, reacting. Water w	Water wheel, letting on water			
Water wheel, letting on water. Water wheel, letting the water on water water wheel, mill, (water mill). Water wheel, mill, (water mill). Jacob Perkins. Jacob Perkins. New York. Nov. 27, 181 Newter wheel, mill, or machine. Water wheel, for mills and boats. Water wheel, overshot. Water wheel, overshot. Water wheel, overshot. Water wheel, overshot, bucket for Dean S. Howard. Water wheel, perpetual. Water wheel, propelling. Water wheel, propelling. Water wheel, propelling beats* Water wheel, reacting. Water wheel, reacting. Water wheel, reacting. Water wheel, reacting. John Turner Jos. C. Strode. Water wheel, reacting. Water wheel, reacting. Water wheel, reacting. Water wheel, reacting. John Turner Augusta, Me. July 12, 183 Mellebrand. Rockingham, Va. McMinn co., Tenn. Eagle, N. Y. Sept. 28, 183 Nov. 27, 181 New York. New York. New York. New bouryport, Mass. June 26, 181 New York. New York. New Lebanon, N. Y. April 21, 182 New York. Peb. 16, 183 Worcester, Mass. June 26, 181 New York. New Lebanon, N. Y. New York. Ne	Water wheel, letting on water			
Water wheel, letting on water Water wheel, letting the water on Water wheel, mill, (water mill). Jacob Perkins New York New Jork New Jork Nov. 27, 181 New Lebanor, Md Jan. 25, 181 Baltimore, Md Jan. 25, 181 Ogdensburg, N. Y April 21, 182 New Lebanon, N.Y. May 15, 183 New York Aug. 7, 182 New York April 21, 183 Mater wheel, overshot, bucket for Water wheel, porstocks for Nelson Johnson Triangle, N. Y April 15, 182 April 15, 182 April 11, 182 Water wheel, propelling beats* Water wheel, propelling beats* Water wheel, reacting John Turner Jos. C. Strode Goo. Russel Millburne, Me Sept. 28, 183 Aug. 29, 183 Aug. 29, 183 Aug. 29, 183 April 21, 182 April 21, 182 Ware Strongen April 15, 182 April 15, 182 April 15, 182 April 15, 182 April 15, 183 April 12, 183 April 21, 183 April 21, 184 April 21, 184 April 21, 184 April 21, 184	Water wheel, letting on water		Henry county, Ga.	July 18, 1826
Water wheel, letting on water Water wheel, letting the water on Water wheel, mill, (water mill). Jacob Perkins New York New Jork New Jork Nov. 27, 181 New Lebanor, Md Jan. 25, 181 Baltimore, Md Jan. 25, 181 Ogdensburg, N. Y April 21, 182 New Lebanon, N.Y. May 15, 183 New York Aug. 7, 182 New York April 21, 183 Mater wheel, overshot, bucket for Water wheel, porstocks for Nelson Johnson Triangle, N. Y April 15, 182 April 15, 182 April 11, 182 Water wheel, propelling beats* Water wheel, propelling beats* Water wheel, reacting John Turner Jos. C. Strode Goo. Russel Millburne, Me Sept. 28, 183 Aug. 29, 183 Aug. 29, 183 Aug. 29, 183 April 21, 182 April 21, 182 Ware Strongen April 15, 182 April 15, 182 April 15, 182 April 15, 182 April 15, 183 April 12, 183 April 21, 183 April 21, 184 April 21, 184 April 21, 184 April 21, 184			Rockingham, Va	June 8, 1827
Water wheel, letting on water Water wheel, letting the water on Water wheel, mill, (water mill). Jacob Perkins New York New Jork New Jork Nov. 27, 181 New Lebanor, Md Jan. 25, 181 Baltimore, Md Jan. 25, 181 Ogdensburg, N. Y April 21, 182 New Lebanon, N.Y. May 15, 183 New York Aug. 7, 182 New York April 21, 183 Mater wheel, overshot, bucket for Water wheel, porstocks for Nelson Johnson Triangle, N. Y April 15, 182 April 15, 182 April 11, 182 Water wheel, propelling beats* Water wheel, propelling beats* Water wheel, reacting John Turner Jos. C. Strode Goo. Russel Millburne, Me Sept. 28, 183 Aug. 29, 183 Aug. 29, 183 Aug. 29, 183 April 21, 182 April 21, 182 Ware Strongen April 15, 182 April 15, 182 April 15, 182 April 15, 182 April 15, 183 April 12, 183 April 21, 183 April 21, 184 April 21, 184 April 21, 184 April 21, 184			McMinn co., Tenn.	Nov. 10, 1827
Water wheel, nill, (water mill). Water wheel, mill, (water mill). Water wheel, mill, (water mill). Jacob Perkins Jacob Perkins New York New Lesanon, N.Y. April 21, 182 New York New Lesanon, N.Y. New Lebanon, N.Y. New York New York New Lebanon, N.Y. New York New York New York New Lebanon, N.Y. New York New York New Lebanon, N.Y. New York New Lebanon, N.Y. New York New York New Lebanon, N.Y. New York New York New York New York New York New York New Lebanon, N.Y. New York New Lebanon, N.Y. New			Eagle, N. Y	Sept. 28, 1837
Water wheel, mill, (water mill). Water wheel, for mills and boats. Water wheel, mill, or machine. Luther Copeley. Ralph Bulkley. Ralph Bulkley. New York. Aug. 7, 182 Water wheel, overshot. Ralph Bulkley. New York. Aug. 7, 183 New York. Aug. 7, 182 Water wheel, overshot, bucket for Water wheel, overshot, bucket for Water wheel, and paddle. Water wheel, and paddle. Water wheel, perpetual. Water wheel, perpetual. Water wheel, perpetual. Water wheel, propelling. Water wheel, propelling beats* Water wheel, reacting. Wat				
Water wheel, nill, (water mill). Water wheel, for mills and boats. Water wheel, for mills and boats. Water wheel, oblique. Water wheel, oblique. Water wheel, overshot. Water wheel, overshot. Water wheel, overshot, bucket for Water wheel, overshot, bucket for Water wheel, propelling. Water wheel, penstocks for. Water wheel, penstocks for. Water wheel, propelling. Water wheel, propelling. Water wheel, propelling beats* Water wheel, reacting. Water	Water wheel, mill. (water mill)			
Water wheel, nill, (water mill). Water wheel, for mills and boats. Water wheel, for mills and boats. Water wheel, oblique. Water wheel, oblique. Water wheel, overshot. Water wheel, overshot. Water wheel, overshot, bucket for Water wheel, overshot, bucket for Water wheel, propelling. Water wheel, penstocks for. Water wheel, penstocks for. Water wheel, propelling. Water wheel, propelling. Water wheel, propelling beats* Water wheel, reacting. Water	Water wheel, mill. (water mill)			
Water wheel, for mills and boats. Water wheel, mil, or machine. Water wheel, oblique	Water wheel, mill, (water mill)		Baltimore, Md	
Water wheel, oblique				April 21, 1829
Water wheel, overshot. Water wheel, overshot. Water wheel, overshot. Water wheel, overshot, bucket for Water wheel, and paddle Water wheel, penstocks for. Water wheel, penstocks for. Water wheel, propelling. Water wheel, propelling. Water wheel, propelling beats* Water wheel, reacting. Water wheel, reacting			New Lebanon, N.Y.	
Water wheel, overshot. Water wheel, overshot, bucket for Water wheel, and paddle Water wheel, perpetual. Water wheel, propelling. Water wheel, propelling beats* Water wheel, reacting. John Turner. Augusta, Me. Jan. 18, 183 Water wheel, reacting. Jos. C. Strode. Geo. W. Henderson & Jan. 18, 183 Water wheel, reacting. Water wheel, reacting. Water wheel, reacting. Water wheel, reacting. Jos. C. Strode. Geo. W. Henderson & Jan. 18, 183 Water wheel, reacting. Water wheel, reacting. Gideon Hotchkiss. Windsor, N. Y. Nov. 6, 183	Water wheel, oblique		New York	
Water wheel, overshot, bucket for Water wheel, and paddle. Water wheel, penstocks for. Water wheel, penstocks for. Water wheel, perpetual. Water wheel, propelling. Water wheel, propelling beats* Water wheel, propelling beats* Water wheel, reacting. Gardiner, Maine. Jon. Turner. Augusta, Me. Jan. 18, 183 Water wheel, reacting. Jos. C. Strode. Geo. W. Henderson & John Clayford. Geo. W. Henderson &	Water wheel, overshot		New York	Feb. 13, 1809
Water wheel, and paddle Water wheel, penstocks for Water wheel, perpetual Water wheel, propelling Water wheel, propelling beats*. Water wheel, propelling beats*. Water wheel, reacting Geo. W. Henderson & Jan. 18, 183 Water wheel, reacting Geo. W. Henderson & Millburne, Me Sept. 22, 183 Sept. 22, 183 Sept. 22, 183	Water wheel, overshot		Virginia	Mar. 5, 1816.
Water wheel, penstocks for. Water wheel, perpetual			Lyonsdale, N.Y	Feb. 16, 1831
Water wheel, perpetual. Water wheel, perpetual. Water wheel, propelling. Water wheel, propelling beats Water wheel, propelling beats Water wheel, reacting. Gardiner, Maine. Gardiner, Maine. Jan. 18, 183 April 15, 182 Mare 8, 183 Nov. 23, 180 April 15, 182 Mare 8, 183 Nov. 23, 180 April 14, 183 Calvin Wing. Gardiner, Maine. Jan. 18, 183 Feb. 8, 183 Jos. Russel. Millburne, Me. Sept. 22, 183 Gideon Hotchkiss. Windsor, N. Y. Nov. 6, 183	Water wheel, and paddle			June 11, 1829
Water wheel, perpetual	Water wheel, penstocks for			April 15, 1829-
Water wheel, propelling beats* Water wheel, reacting	Water wheel, perpetual		Philadelphia, Pa	April 21, 1817
Water wheel, reacting		Aretar A. Wilder	Warsaw, N. Y	Mar. 8, 1836
Water wheel, reacting	Water wheel, propelling beats*	William Kellev	Pittsburg, Pa	July 12, 1834
Water wheel, reacting	Water wheel, reacting	Joel Farnam	Oswego, N. Y	Nov 23, 1808
Water wheel, reacting	Water wheel, reacting	John W. Henderson	•	,
Water wheel, reacting Calvin Wing Gardiner, Maine Oct. 22, 183 Water wheel, reacting John Turner Augusta, Me Jan. 18, 183 Water wheel, reacting Geo. W. Henderson & Jos. Russel Millburne, Me Sept. 22, 183 Water wheel, reacting Gideon Hotchkiss Windsor, N. Y Nov. 6, 183	, ,	and John Clayford.	Millburne, Maine	April 14, 1830-
Water wheel, reacting	Water wheel, reacting	Calvin Wing		Oct. 22, 1830
Water wheel, reacting Jos. C. Strode E. Bradford, Pa Feb. 8, 183 Water wheel, reacting Geo. W. Henderson & Jos. Russel Millburne, Me Sept. 22, 183 Water wheel, reacting Gideon Hotchkiss Windsor, N. Y Nov. 6, 183	Water wheel, reacting	John Turner		Jan. 18, 1831
Water wheel, reacting Geo. W. Henderson & Jos. Russel Millburne, Me Sept. 22, 183 Water wheel, reacting Gideon Hotchkiss Windsor, N. Y Nov. 6, 183	Water wheel, reacting	Jos. C. Strode		Feb. 8, 1831
Vater wheel, reacting Jos. Russel Millburne, Me Sept. 22, 183 Water wheel, reacting Gideon Hotchkiss Windsor, N. Y Nov. 6, 183	Water wheel, reacting	Geo. W. Henderson &	-	•
Water wheel, reacting Gideon Hotchkiss Windsor, N. Y Nov. 6, 183		Jos. Russel		
Water wheel, reacting Hazard Lewis Bingkampton. N. Y. Jan. 7. 183	Water wheel, reacting	Gideon Hotchkiss	Windsor, N. Y	Nov. 6, 1832
	Water wheel, reacting	Hazard Lewis	Bingkampton, N. Y.	Jan. 7, 1833.

^{*} Reierued November 17, 1834.

MAEMAIONS	or discoveries.	PATRITUM.	resmence.	WARN ISAN
#7-4 b a al		Tohn Ambles is	Waterford N V	Feb. 2, 18
	reacting**		Canacad N H	Mar. 11, 18
	reacting	Robert Eastman	Concoru, N. H	A: 11, 10
	reacting	Israel S. Savage	waterville, Me	April 12, 18
Water wheel,	reacting	John L. St. John		
Water wheel,	reacting	John B. McCord	Galena, Ill	
	reacting	Gideon Hotchkiss	Windsor, N. Y	Jan. 9, 18
	reacting	Nelson Johnson	Erwin Centre, N. Y	Nov. 23, 18
	reacting	Nelson Johnson	Erwin Centre, N. Y	May 30, 18
	reaction	Esau Whitney, Jacob Whitney, and Wil-		_
Water wheel,	reaction	signee of Joshua		June 11, 18 July 30, 18
Water wheel,	reaction	Abner Chapman	Sodus, N. Y Fort Miller Bridge, N. Y	July 30, 18
Water mheel	reaction	Ralph Summers		
Water wheel,	reaction reacting, lever l, reacting, double	Luther Davis	Northampton, Mass	Nov. 4, 18
power Water wheel,	reaction, moulding	William L. Eldredge.		
	to castingreaction and percus	Stephen Parsons Zebulon Parker (and Robert McKelvey, in trust for the heirs at		April 18, 18
			Oh:	Oct. 19, 18
		law of Austin Parker	Onio	Oct. 19, 16
Water wheel,	reaction.	Nathaniel F. Hodges Archibald Bryce		
motion of	&c., regulating the &c., regulating the	Nathan Scholfield	Montville, Ct	Feb. 11, 18
motion of	relieving from back	Nathan Scholfield	Norwich, Ct	May 17, 18
water Water wheel,	rolling tub	D. Benedict Samuel Bartlett		
McComb's	on Rumsey's and for saw mills	Theodore Burr Thomas Shute		
Water wheel,	for saw and grist		Lanier Township, O	
	and saw mills	Charles Forse	Booneville, Miss	
	screw		Sandwich, N. H	Sept. 11, 18
	serew		Charlestown, Mass.	Jan. 20, 10
	screw, spiral		West Tennessee	
	sliding gear		Fenner, N. Y	wbu 12, 19
vater wheel,	, spiral			
		& Wm. Stanton	Lynchburg, Va	April 25, 18
Mater wheel,	spiral	Abner Vansant	Jefferson co., Mis	Sept. 29, 18
Vater wheel,	spiral	James Kelly Joseph C. Green	Jackson county, O	Feb. 21, 18
Vater wheel.	spiral bucket	Joseph C. Green	Fayette, Me	May 30, 18
V-4 1	spiral bucket	Lorenzo D. Adkins	Perry, Ohio	May 17, 18
YELET Wheel.	aniral float	Fitch Ives	Lisle, N. Y	July 5 18
Vater wheel,			Millhury Mass	July 5, 18 Dec. 22, 18
Vater wheel,	apring bucket	Ass Waters		
Vater wheel, Vater wheel,	spring bucket			Mar 7 10
Vater wheel, Vater wheel, Vater wheel,	spring bucket	Cyrus Bent	Ohio	Mar. 7, 18
Water wheel, Water wheel, Water wheel, Water wheel,	subsub	Cyrus Bent	Ohio	Mar. 7, 18 Mar. 21, 18
Water wheel, Water wheel, Water wheel, Water wheel, Water wheel,	spring bucket sub sub supplying	Cyrus Bent John Johnson John Houghton	Ohio	Mar. 7, 18 Mar. 21, 18 Jan. 13, 18
Water wheel, Water wheel, Water wheel, Water wheel, Water wheel, Water wheel,	spring bucket sub sub supplying tide	Cyrus Bent	Ohio	Mar. 7, 18 Mar. 21, 18 Jan. 13, 18 Mar. 18, 17
Water wheel, Water wheel, Water wheel, Water wheel, Water wheel, Water wheel,	spring bucket sub sub supplying	Cyrus Bent John Johnson John Houghton	Ohio	Mar. 7, 18 Mar. 21, 18 Jan. 13, 18 Mar. 18, 17
Water wheel, Water wheel, Water wheel, Water wheel, Water wheel, Water wheel, Water wheel,	spring bucket sub sub suplying tide	Cyrus Bent	Ohio	Mar. 7, 18 Mar. 21, 18 Jan. 13, 18 Mar. 18, 17 May 1, 18
Water wheel, Water wheel, Water wheel, Water wheel, Water wheel, Water wheel, Water wheel,	spring bucket sub sub supplying tide	Cyrus Bent	Ohio	Mar. 7, 18 Mar. 21, 18 Jan. 13, 18 Mar. 18, 17 May 1, 18
Water wheel,	spring bucketsubsubsubsubsupplyingtide	Cyrus Bent John Johnson John Houghton Cyrus Betts William Stubbs Dexter Wheeler N. Gates & A. Maxwell	Ohio. Knox county, Ind. Greene county, Ga. New York. Chilicothe, Ohio. Bristol, Mass. Delhi, N. Y	Mar. 7, 18 Mar. 21, 18 Jan. 13, 18 Mar. 18, 17 May 1, 18 Mar. 2, 18
Water wheel,	spring bucket subsubsubsupplyingtidetide	Cyrus Bent	Ohio	Mar. 7, 18 Mar. 21, 18 Jan. 13, 18 Mar. 18, 17 May 1, 18 Mar. 2, 18

^{*} Reissued June 29, 1833. † Renewed by act of Congress for seven years, from October 19, 1843.

Water wheel, tide, and current. Water wheel, tub. Water wheel, two at a time. Luke C. Hinman L. Bissell, and Moses Barnes. Sebenezer Cochran. Gibson county, Ind. Gibson county, Ind. Water wheel, vertical tide Robert Leal Delhi, N. Y. May 3 Wells, covers of Windmill Wantsford Evans Windmill Wantsford Evans Windmill Alexander McGrew Willam Zimmerman Fall River, Mass. Aug. 11 May 29 Windmill Alexander McGrew Cabotsville, Mas. Aug. 12 Dec. 20 Stephenson, Ill. May 29 Windmill, horizontal. John M. Van Osdel. Wind wheel Jos. Pope. Wind wheel John M. Van Osdel. Wind wheel John M. Van Osdel. Wind wheel Vermont. Wassachusetts. Jan. 26 New York Sept. 16 Detroit, Mich. July 16 Waterville, Me. April 16 April 16 Materville, Me. April 16 Materville, Me. April 16 Materville, Me. April 16 Waterville, Me. April 16 New York Stelenier, Me. April 16 New York Stelenier, Me. April 12 Nov. 26 Waterville, Me. April 12 New York city. Nov. 26 Stelenier, Me. April 26 New York Stelenier, Me. April 27 New York Stelenier, Me. April 26 Waterville, Mes. April 16 Bangoron, Mes Vork Stelenier, Mes. April 26 Bangoron, Mes Vork Stelenier, Mes. April 27 Bangoron, Mes Vork Stelenier, Mes. April 27 Bangoron, Mes Vork Stelenier, Me	3, 1817 6, 1823 0, 1899 0, 1798 7, 1797 2, 1831 5, 1805 9, 1831 6, 1835
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Water wheel, tub. David P. Napier Liberty, Ky. May 22 Athol, Mass. May 6 Cato 4 corners, N.Y. Nov. 16 Luke C. Hinman L. Bissell, and Moses Barnes. Barnes. Otsego, N. Y. June 7 Gibson county, Ind. Greenbrier co., Va. June 16 Greenbrier co., Va. June 18 Wells, covers of Levi Kidder. Windmill. Wanter wheel, wertical tide Robert Leal Downfries, Va. June 16 Greenbrier co., Va. Jan. 16 Greenbrier co., Va. Jan. 16 Greenbrier co., Va. June 18 Greenbrier co., Va. June 18 Greenbrier co., Va. June 19 Greenbrier co., Va. J	7, 1797 2, 1631 5, 1895 9, 1831 6, 1835
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Wind wheel Russel H. Wright Boston, Mass April 25	
wind wheel James Barron Elizabeth city, va July 18	5, 1810
Wind wheel Moses Isaacs Philadelphia, Pa May 2	
Wind wheel Pierr Etienne New York Nov. 14	4, 1820
Wind wheel Jesse Mollineux N. Hempstead, N. Y Jan. 24	4, 1823
Wind wheel	2, 1826
Wind wheel Abner Murray Athens, Pa July	3, 18 28
Wind wheel	
Wind wheel Ebenezer B. Sperry Weyham, Mass Aug 31	1, 1837
Wind wheel	
Wind wheel, horizontal John B. Aveilhē South Carolina Mar. 10	6, 1809
Wind wheel, horizontal Samuel Goodwin Baltimore, Md Oct. 31 Wind wheel, horizontal Thomas P. Jones Newcastle, Del Feb. 6	
Wind wheel, horizontal Walter Ingalls Sanbornton Bridge,	
Wind wheel, horizontal	6, 1827
Wind wheel, horizontal Jeremiah L. Colman Vincennes, Ind May 4 Wind wheel, horizontal Solomon Deming Brunswick, Ohio Mar. 8	6, 18 27 9, 1828 8, 1831

^{*} Antedated September 9, 1866.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN MOUED.
Wind wheel, horizontal	Wm. Lewis and Thos. J. Lewis	Boston, and Cam- bridge Mass	Jan. 27, 1838
Wind wheel, horizontal	Daniel Dennet	Centreville, La	Nov. 13, 1844
Wind wheel, machinery			
Wind wheel, propelling mills boats		,	•
land vehicles, &c		Trenton, N. J	May 3, 1832
Wind wheel, regulating			
Wind wheel, regulating			
Wind wheel, vertical	Abner Murray	Athens, Pa	July 8, 1828
Wind wheel, or water			
Wind wheel, or water	Daniel Van Vorhies	Long Island, N. Y.	Mar. 21, 1811
Wind wheel, or water	Moses Pennock	Kennett's Sq're, Pa.	Feb. 18, 1812
Wind wheel, or water	Adkins Nash	Addison, Me	April 27, 1832
Wind wheel, or water	Jonathan Reynolds	Dutchess Co., N. Y	June 24, 1815
Wind wheel, or water	William Gallup	Norwalk, Ohio	Mar. 29, 1821

CLASS No. XII.

LEVER, SCREW,

And other Mechanical Power, as applied to Pressing, Weighing, Raising, and Moving Weights.

LIST OF PATENTS.

CLASS XII.—LEVER, SCREW, and other Mechanical Power, as applied to Pressing, Weighing, Raising, and Moving Weights.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Balance	Henry Dearborn	Boston, Mass	Mar. 24, 1819
Belance	David Rogers	Auburn, N. Y	July 13, 1824
Balance*	Benj. Morrison	Milton, Pa	Feb. 13, 1833
Balance	Nereston Griffing	New York	April 8, 1835
Balance	Jirah Vaughn	Rutland, Vt	May 6, 1836
Balancet	B. Morrison	Milton, Pa	Feb. 16, 1837
Balance	Benjamin Morrill	Boscawen, N. H	May 26, 1843
Balance	George R. Moore	Brattleborough, Vt	Jan. 6, 1844
Balance or counter scales for weighing	George White	Tanianilla Ka	Nov. 16, 1839
Balance, Columbian	William Granger	Louisville, Ky	Sept. 8, 1810
Balance, compound lever	Jared B. Whetmore	Middlebury, Vt Rush, N. Y	Feb. 27, 1832
Balance, for counters	Elias Hibbard	Lunenburg, Vt	Nov. 7, 1835
Balance cranest	Claudius Gignaux, as'e	New York, N. Y.	•
•	of Louis Henry	Paris, France	Nov. 9, 1844
Balance, (on Dearborn's imp.)	Solomon A. Rogers	Geneva, N. Y	July 31, 1817
Balance, (on Dearborn's imp.)	Samuel Blaisdell	Lancaster, Ohio	Oct. 10, 1827
Balance, (on Dearborn's imp.)	Uel West and Daniel	·	
	Loring	New York	Aug. 23, 1831
Balance, dormant	James K. Casey	New York	June 23, 1823
Balance, cagle	Levins Jencks & Hen-		NT 04 1004
Poleman James anning actal	ry Dexter	Killingly, Ct	
Balance, lever, spring catch	Levi Kendall	New York	May 8, 1809 June 9, 1810
Balance, perpetual	Russell H. Wright	Boston, Mass Dunstable, N. H	June 9, 1010
Balance, platform	Ira Gay John B. Maag	New York	Jan. 14, 1833 Feb. 19, 1833
Balance, platform,	Samuel L. Hay		July 14, 1834
Balance, platform	Alexander Bliss	Benson, Vt	June 12, 1835
Balance, platform	C. P. Ladd	Strasburg, Vt.	May 17, 1836
Balance, platform	James M. Peck	Lyndon, Vt Madrid, N. Y	May 23, 1836
Balance, platform	John Horton	Madrid, N. Y	July 2, 1836
Balance, platform	Benjamin Bull	New York city	May 3, 1837
Balance, platform	B. Morrison	Milton, Pa	Mar. 17, 1838
Balance, platform	J. B. Dale	Lansingburg, N. Y. Rochester, N. Y.	Aug. 30, 1838
Malance, platform	R. L. McCollum	Rochester, N. Y4	Dec. 31, 1838
Balance, platform	L. Wemple	Madison, N. Y	April 8, 1840
Balance, platform	Albert Dole	Bangor, Me	July 18, 1840 Nov. 10, 1841
Balance, platform	Joshua Gibbs	Geneva, Ohio Newark, Ohio	Sept. 12, 1846
Balance, platform, double lev. scale		Lunenburg, Vt	May 29, 1835
Balance, platform, scale for weigh-	D. II. W II. INDUMU	Dunchburg, 1 t	21247 20, 2010
ing	Jesse Marden	Baltimore, Md	Sept. 9, 1835
Belance, portable	Albert Dole	Bangor, Me	Dec. 23, 1841
Balance, scale and beams	Samuel Wallis	Massachusetts	Sept. 21, 1801
Ralance, seale beams	John Edwards	New York	May 19, 1806
Balance, scale beams	Aaron Pollock	Boston, Mass	July 31, 1815
Halance, scale beams	John Edwards	New York	Nov. 19, 1816
Balance, scale beams,	Sol. A. Rodgers	Philadelphia, Pa	Feb. 19, 1825
Balance or scale beam	Seth E. Winslow	Philadelphia, Pa	July 31, 1840
Balance, scale, compound lever, &		0	D 10 1000
self-weighing	Hosea H. Grover	Springwater, N. Y.	Dec. 17, 1830
Balance, scale, preponderating	•		_
* Reisaued Dec. 31, 1833.	† Add'l im	p., Aug. 16, 1838, & Mar. 9	19, 1841.

Date of French patent, Oct. 27, 1842.

† Add'l imp., Aug. 16, 1838, & Mar. 29, 1841. # Reissued Jan. 21, 1889.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN THED.
Balance, scale, spring	Daniel Klanberg	New York	June 12, 1830
Balance, scale, beam, and weights		Troy, N. Y	Jan. 9, 1836
*Balance, scales for weighing		Buffalo, N. Y	April 20, 1835
Balance, spring	J. H. & R. H. Bull	New York, N. Y	Sept. 20, 1844
Balance, steel yards	Benjamin Dearborn	Massachusetts	Feb. 14, 1799
Balance, steelyards	Louis Dupree	South Carolina	May 12, 1802
Balance, steelyards	John Edwards	New York	May 19, 1806
Balance, steelyards	Barnabas Langdon	St. Albans, Vt	April 23, 1807
Balance, steelyards	Samuel Hills	Lincoln, Mass	Dec. 27, 1815
Balance, steelyards	Jac. Bartholomew	Middlebury, Vt	Feb. 27, 1819
Balance, steelyards	E. Fairbanks and T. Fairbanks	St. Johnsbury, Vt	Sept. 22, 1832
Balance, steelyards*	E. Fairbanks and T. Fairbanks	St. Johnsbury, Vt	Sept. 22, 1832
Balance, steelyards	Christopher F. Dahl	Pittsburg, Pa	Oct. 31, 1835
Balance, steelyards	Eli Willemin	Leesburg, Ohio	Aug. 21, 1841
Balance, steelyards, combined	Martin Craw	Leesburg, Ohio Rush, N. Y	June 13, 1831
Balance, steelyards, lever power	Samuel Andrews	Bridgetown, Me	Mar. 24, 1827
Balance, steelyards and scales	Zina Phinney	Greene co., N. Y	Jan. 6, 1814
Balance, weighing apparatus, mo-	Christ'r E. Damphier.	Ware, England	reb. 12, 1841
ving index	Martin Robbins	Hollidaysburg, Pa	Jan. 23, 1841
loaded wagons	Daniel Loring	Newark, N. J	Aug. 23, 1831
loaded wagons	James Coulter	Philadelphia, Pa	Oct. 13, 1831
Balance, weighing hay and cattle. Balance, weighing heavy bodiest.	Thomas Armat E. Fairbanks and T.	Philadelphia, Pa	May 10, 1811
Balance, weighing heavy bodiest.	Fairbanks E. Fairbanks and T.	St. Johnsbury, Vt	June 13, 1831
	Fairbanks	St. Johnsbury, Vt.	Feb. 21, 1839
Balance, weighing machine Balance, weighing machine	Eli Wadsworth	Hartford, Ct New York	Sept. 7, 1830 July 20, 1831
Balance, weighing machine	James S. Seger J. G. Rohr, ass'nee of		April 22, 1835
Boom derrick	Baptiste Maag James S. Savage	New York Boston, Mass	Feb. 15, 1838
Buildings, removing, with chim-	a: D	N	T 01 1007
neys, and furniture therein	Simeon Brown	New York	July 31, 1827
Buildings, &c., removing	Lewis Pullman	Portland, N. Y	Aug. 21, 1841
Cargoes, ascertaining weight of	Amory Amsden	Rochester, N. Y Smithfield, R. I	June 27, 1838
Condensing cotton	Arlon Man	New York	April 28, 1836 July 8, 1834
Crane	Elias Marsh	Oswego, N. Y	Feb. 12, 1836
Crane	Gilbert Sherwood	Erie, Pa	June 30, 1836
Crane, labor saving	Thomas Godwin	New York	Oct. 2, 1838
Crane, lever		Oneida co., N. Y	Dec. 31, 1818
Elevating brick, stone, and mortar		Lewiston, N. Y	Dec. 16, 1833
Elevating hay.	George Wilbur	Macedon, N. Y	July 17, 1837
Hoisting machine	William Purden	Baltimore, Md	Mar. 19, 1806
Hoisting machine	John Drammond	New York	Mar. 10, 1834
Hoisting machine	David Evans	Philadelphia, Pa	
Hoisting, machinery for	John B. Holmes	Boston, Mass New York, N. Y	June 7, 1841
Jackscrew	William Ballard	New York, N. Y	July 7, 1846
Jackscrew	Stephen Vail		May 7, 1839
Jackscrew, goods in ships' holds.		New York	
Jackscrew, for raising wagons			
Jackscrew, for raising wagons		Springfield, Mass	Mar. 8, 1828 Feb. 3, 1819
Jackscrew, wooden	Zenos Bunker	Guilford, N. C	Feb. 3, 1819 May 14 1899
Lever, angle Lever, combination of	James Barren Caleb Tompkins		May 14, 1822 Nov. 14, 1834
Lever, compound pendulum	Cyrus Berry		
Lever, crank, weight, bal. wheel, combination of		•	·
1 Reissand Pab 10 1927		-tedated las 14 1940	

^{*} Reissued Feb. 10, 1837. ‡ Reissued Mar. 6, 1834, and Peb. 10, 1837.

[†] Antedated Jan. 14, 1840 Additional patent, Sept. 13, 1839.

INVENTIONS OR DISCOVERIES.	Patritres,	residence.	when issued.
Lever, gained power	Ed. G. Fitch	Blakely, Ala	Oct. 5, 1827
Lever power	William Scarbrough	Darien, Ga	May 19, 1824
Lever power	Tylee W. Lafetra	New York	Jan. 23, 1834
Lever power, accumulating	J. Cochran		
Lever power, engine, and self-re-	J. Commun	boddi Hauley, Mass	
	Sidney Woods	France Ma	Tan 7 1995
gulating combined pendulum	Sidney Woods	Freeport, Me	Jan. 7, 1835
Lever power, and inclined wheel.		Westport, Ky	July 20, 1831
Lever power, projectile	George Wood	Vernon, Ia	June 9, 1830
Lever power, propelling machiner			
Lever power, sawing by	Jeremiah Walker	Phillips, Me	Feb. 25, 1836
Lever purchase, machine for work-	1		
ing mills	Shubael Kimball	Rhinebeck, N. Y	April 24, 1811
Lever, raising bodies	Richard Sealy	New York	July 1, 1822
Lever, rotary engine	Caleb Tompkins		Nov. 14, 1834
Lever and wheels, combination of		g , ,	,
pluribus unum.	quale Ricardi	New York	May 25, 1818
Packing bark	Jos. Lyon	Philadelphia, Pa	July 1, 1811
Packing bark, ground	Jos. Lyon	Philadelphia Pa	Jan. 5, 1815
Packing cotton	John Cook	Foresteville N C	
	John Cook	Determine De	Oct. 12, 1821
Packing cotton	Webb Hart	Helica N. C.	May 4, 1825
Packing cotton	Lewis Laysard	Halliax, N. C	Sept. 28, 1825
Packing cotton	David Wilkinson	N. Providence, Va.	Dec. 8, 1825
Packing cotton	Charles Williams	Petersburg, Va	June 3, 1826
Packing cotton	James H. McClelland.	Fairfield dist., S. C.	Dec. 28, 1826
Packing cotton	William C. Thomas	Richmond co., Va	Feb. 15, 1827
Packing cotton	0. Stith	Laurenceville. Va	Aug. 25, 1829
Packing flour	John Hinman	Hartley town'p. Pa.	Mar. 2, 1835
Packing flour	Jonathan F. Barrett	Granville, N. Y	Jan. 23, 1836
Packing flour	James Banta, jr Oliver Jewett	Utica. N. Y.	Aug. 2, 1839
Packing flour, and pressing	Oliver Jewett	Rochester N V	Mar. 30, 1837
Packing machine	J. Clarke & E. Evans.		July 20, 1803
Packing machine	Tyre Jennings	Stateshurch & C	Mar. 3, 1829
Packing screw, inverted	Stephen Terry	Decetor Go	
Packing tobacco, box for	J. B. Allen	Dichmond We	June 11, 1836
Packing tobacco, staves of cast	J. D. Rhell	Richmond, Va	Jan 15, 1836
iron for		D:-1	M 11 1041
Press	Thomas Samson	Richmond, va	May 11, 1841
	Silas Hitchcock		June 25, 1813
Press	Jesse Cramton	New York	Feb. 18, 1834
Press	William B. Leonard	Mattawan W'ks, N. Y	Feb. 20, 1843
Press	Amos Jackson	Liberty, Ill	June 24, 1844
Press, brick.—See Class 15.		-	
Press, centripetal power	E. S. Scripture	Cazenovia, N. Y	Sept. 26, 1834
Press, cheese	Jesse Arnold	Pawlings, N. Y	Oct. 26, 1807
Press, cheese	Ephraim Warner	Waterbury, Ct	April 12, 1808
Press, cheese	Levi Martin	Granville, N. Y	Dec. 19, 1808
Press, cheese	Hez. Dickerman	Barnstable, Mass	Dec 27, 1808
Press, choese	Hazel Irwin	Boston, Mass	Dec. 28, 1808
Press, cheese	Phineas Allen	Burlington N V	May 13, 1809
Press, cheese	Benjamin Atwell	Rurlington N V	Tuly 19, 1005
Press, cheese	Eb. Raymond	Sharburn N V	July 18, 1809 Feb. 22, 1816
Press, cheese	W W Townsond	Addison co Tr	
Press, cheese	W. W. Townsend	Addison co., Vt,	June 13, 1812
	Jos. Golding	vv orcester, Mass	May 27, 1814
Press, cheese	Rand White		Mar. 3, 1815
Press, cheese	Alexander Norton	Gosnen, Ct	May 6, 1820
Press, cheese	Jos. Pride	Potsdam, N. Y	
Press, cheese	Lebbeus Caswell	Harrison, Me	Dec. 9, 1825
Press, cheese	D. Hitchcock and C.		_
	Stone	New York	July 24, 1828
Press, cheese	Rd. McOmber	Galway, N. Y	Oct. 27, 1829
Press, cheese	Reynold Webb & Jo-	, =	
•	nathan Cox	Madison, Ct	Feb. 27, 1830
Press, cheese	Myron Norton	Goshen, Ct	Oct. 13 1830
Press, cheese			200. 10, 1000
		Inewich Moss	Tob 14 1091
16	1 7 0101101	Ipswich, Mass	ren. 14, 1031

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Press, cheese	Benjamin Hinkley	Fayette, Me	Oct. 25, 1832
Press, cheese	Asahel Tyrrill	Fowler, Ohio	Dec. 31, 1833
Press, cheese	Sylvester Kibbe	Schoharie, N. Y	July 18, 1834
Press, cheese	Elijah Barnes David Phelps	N. Brookfield, Mass. Bangor, Me	Sept. 5, 1834 June 12, 1835
Press, cheese	Sullivan White	Bridgewater, Vt	Aug. 15, 1837
Press, cheese	Luke Hale	Hollis, N. H	June 30, 1838
Press, cheese	Adin Gaunt	Springfield, N. J	July 6, 1839
Press, cheese	Wm. W. Townsend	Shoreham, Vt	Dec. 18, 1839
Press, cheese	Rufus Porter	Billerica, Mass	April 15, 1840
Press, cheese	J. A. Fletcher	Irasburg, Vt	June 20, 1840
Press, cheese	Job Arnold	Friendship, N. Y Harmony, N. Y	May 4, 1841 April 2, 1841
Press, cheese	Sylvanus Bartlett	Hocking co., Ohio	Feb. 28, 1842
Press, cheese, and cider	Eb. Benedict	N. Marlboro', Mass.	Mar. 21, 1808
Press, cheese, and cider	Eb. Benedict	N. Marlboro', Mass.	June 18, 1808
Press, cheese, and cider, oil, and			
tobacco	Israel Nichols	Otsego, N. Y	Oct. 12, 1809
Press, cheese, and cider	Lebbeus Caswell	Harrison, Me	Dec. 18, 1826
Press, cheese, and cider Press, cheese, construction of	John Holmes Hartwell Kendall	Paris, Me Danby, Vt	Feb. 6, 1832 July 15, 1842
Press, cheese, self-acting	C. Stone, F. K. Collins,	Dailey, Territoria	ou.y 10, 1042
1 1 cm, directly the management	and G. S. Collins	Ravenna, Ohio	July 28, 1842
Press, cheese, self-acting	Chester Stone	Rootstown, Ohio . }	Aug. 6, 1842
	F. K. & G. S. Collins.	Ravenna, Ohio	Aug. 0, 1042
Press, cheese, self-acting	C. Stone and G. S.		3.6 00 1040
Press, cheese, self-acting	Collins. John Martin, jr	venna, Ohio Aztalan, W. T	May 29, 1842 Nov. 26, 1844
Press, cheese, self-adjusting	Rufus Porter	Billerica, Mass	Feb. 6, 1835
Press, cheese, self-propelling, hang-		<i></i>	- 00. 0, 1000
ing lever	John S. Cram	Hanover, N. H	Dec. 27, 1831
Press, cheese, (on Townsend's im-	T 70' 1		7 05 1010
provement)	Jos. Bigelow Thos. & John P. Bake-	Montpelier, Vt	Jan. 25, 1816
Press, combination of powers	well	Pittsburg, Pa	Jan. 14, 1829
Press, construction of	John J. Wise	Baltimore, Md	May 16, 1839
Press, cotton	Jacob Idler	Pennsylvánia	Sept. 24, 1802
Press, cotton	Rd. V. W. Thorne &		21 22 1014
-	John Thorne	New York	Feb. 22, 1810
Press, cotton	John Graham Franklin Shaler	China Grove, S. C	June 17, 1890
Press, cotton	Jac. N. Gordon	Georgetown, Ohio Plymouth, N. C	May 5, 1824 Oct. 8, 1825
Press, cotton	Gideon Glenn	Lewisburg, N. C	April 12, 1826
Press, cotton	J. Boltwright and J.		•
·	Nathans	Richland, S. C	
Press, cotton	Philemon White	Chatham co., N. C.	
Press, cotton	Richard Jernigan William J. Cocke	Waynesburgh, N.C. Cabin Point, Va	Feb. 4, 1828
Press, cotton	Philenzo Payne	Claiborne co., Miss.	Aug. 10, 1829
Press, cotton	James Carson	Raleigh, N. C	
Press, cotton	Philenzo Payne and J.		
·	Randell	Port Gibson, Miss	July 20, 1831
Press, cotton	David Phillips P. Payne & J. Rundell	Natchez, Miss	April 27, 1832 Jan. 25, 1833
Press, cotton	Henry L. Conner	Natchez Miss	July 5, 1833
Press, cotton	Thos. H. Scarborough	Brownsville, Tenn.	Oct. 16, 1834
Press, cotton	Thos. H. Scarborough J. Mitchell.	Rutherford, Tenn	Mar. 12, 1836
Press, cotton	Gideon Fitz	Clinton, Miss	June 3, 1837
Press, cotton	Henry Waterman	Bath, Me	May 10, 1838
Press, cotton	Alexander Jones	New Orleans, La	Oct. 26, 1838
Press, cotton	Jas. R. Hitchcock and Wm. F. Serrell	New York, N. Y	Sent 30 1090
Press, cotton	John Price		
Press, cotton	Fowler M. Ray	Catskill, N. Y	Aug. 25, 1840

INVESTIGNS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED
ress, cotton	Wm. C. Van Hoesen.	Catskill, N. Y	April 2, 184
ress, cotton	W. C. Van Hoesen	Catakill, N. Y	Feb. 1, 184
	Parry W. Porter	Columbia, Tenn	Aug. 11, 184
ress, cotton			
ress, cotton	Samuel Fry	New York, N. Y	May 7, 184
ress, cotton	Thomas W. Harvey	New York, N. Y	Feb. 4, 184
ress, cotton	Otis Whitney	Augusta, Me	Mar. 17, 184
ress, cotton	John R. Remington	Montgomery, Ala	April 15, 184
Press, cotton	Seth Lamb	New York, N. Y	May 12, 184
ress, cotton	Josias Chambers	Alexandria, La	May 19, 184
ress, cotton	Wm. F. and Charles		
	J. Provost.	8. C	Nov. 21, 184
ress, cotton	Seth Lamb	New York	Mar. 16, 184
Press, cotton	Perry G. Gardiner	New York	Mar. 20, 184
ress, cotton	Wm. Sewell, jr	Macon, Penn	June 15, 184
ress, cotton	George Peck	Fairfield, Ct	Mar. 9, 184
ress, cotton	William F. Provost	Barnwell dist., S. C.	
Press, cotton	Jedediah Prescott	Memphis, Tenn	
ress, cotton	Peter M. Wright	New York	
ress, cotton	William Bulloch	Jersey City, N. J	
ress, cotton	Philos B. Tyler	Philadelphia, Pa	Jan. 16, 184
ress, cotton	Joseph Slocum	Syracuse, N. Y	April 16, 184
ress, cotton and hay	Moses Jaques & Henry		•
	Freeman	Woodbridge, N. J	Oct. 2, 181
ress, cotton and hay	Thomas D. Wilson	Condon, Ia	
ress, cotton and hay	Robert Triplett		May 19, 183
	Isaac Robinson, ass'ee		11tay 10, 10t
ress, cotton and hay			Day 17 100
	of Sam'l T. Baker	Portland, Me	Dec. 17, 183
ress, cotton and hay	Alex'r J. Murray	West Point, N. Y.	Jan. 9, 183
ress, cotton and hay	Eleazer Eliason, jr	Fredericksburg, Va.	Jan. 21, 183
Press, cotton and hay	Samuel T. Baker	West Gorham, Me	Mar. 20, 183
Press, cotton and hay	E. & L. L. Macomber	Gardiner, Me	Aug. 15, 18
Press, cotton and hay	Charles W. Hawkes	Brunswick, Me	
ress, cotton and hayt	Joseph C. Baldwin	Staunton, Va	
Press, cotton and hay!	Jas. E. Kelsey & Jas.		,
, , , , , , , , , , , , , , , , , , , ,	A. Potter	Providence, R. I	Sent 25, 18
Press, cotton and hay	Lem'l Bolles, Jedediah		Sop.: 30, 20
,	Prescott, and Wm		1
	A. Bickford	Memphis, Tenn	Feb. 13, 18
Description and have	Charles W. Hawkes.		
ress, cotton and hay		Brunswick, Me	May 29, 18
ress, couton, hay∥	S. W. Bullock	Williamsburg, N. Y.	
ress, cotton, hay		New York, N. Y	April 16, 18
Press, cotton, hay, &c., toggle joint	Robert Harding	South Berwick, Me.	
ress, cotton, hay	Caleb Martine	. Greensburg, N. Y	May 30, 18
Press cotton and hay	William Bullock	Jersey City, N. J	Sept. 28, 18
ress, cotton, horizontal rack and		1 ,	1
pinion	Zenos Bronson	Jasper county, Ga	July 17, 18
ress, cotton, oil, and tobacco	Gideon Palmer	Montville, Conn	
	_ ~ ~	New York	
ress, cotton and other	P. G. Gardiner		Feb. 28, 18
ress, cotton and other	Daniel Goss, assigned		1
	of Joseph C. Colt		. April 22, 18
ress, cotton and tobacco	David Flagg and Chas		1
	Peck	. Gardner, Maine	. Dec. 30 , 18
Press, cotton, water power	Josiah Darden	. Washington, Ala	June 23, 18
ress, cylindrical, steam			
	A. Hall		July 12, 18
Press, double, foundry	William Blake		April 29, 18
Press, flour	Sylvanus Hathaway.		
Press, flywheel			
Press, hay		Pittstown, Maine	. Jan. 26, 18
?ress, hay			1.0
	A. Cleffin	Richmond, Va	. Mar. 30, 18
	Nicholas J. Lampmai	Coxsackie, N. Y	. Oct. 17, 18
Press, hay and cotton			
Press, hay, cotton, and hemp		. City of New York.	. Aug. 31, 18
		. City of New York.	. Aug. 31, 18

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INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHEN MOUSE
ress, hay	Samuel Hewitt	Allensville, Ind	Dec. 30, 18
ress, hay	Charles F. Paine	Winslow, Maine	April 25, 18
ress, hay	David R. Allen	Cumberland, Md	April 25, 18
ress, hay, cider, and oil	Nathan Whiting	Augusta, Maine	Feb. 15, 189
ress, hay, cotton	David Flagg and Chas.	mugusta, manici	2 00. 20, 20.
ress, may, contour	Peck	Gardinar Maina	Dec. 30, 189
been ham double have		Gardiner, Maine	
ress, hay, double box	Ezru Waterhouse	Gardiner, Maine	
ress, hay, hops	Jos. Wilson	Otsego, N.Y	Feb. 17, 183
ress, hydrostatic.—See Class 11.			
ress, improved	George C. Chesley	Rocky Mount, Vt	June 27, 185
ress, inclined friction roller	Luther Carman		
ress, increasing	Abraham Norton		
ress, leather	Jonathan Elliot		
	Thetakan Dieke	Turner Maine	Tall. 10, 10
Press, lever	Thatcher Blake	Turner, Manie	A = :105 106
Press, lever	william Lynn	Danville, va	April 20, 162
ress, lever	Benjamin Morris	Binghampton, N. Y.	Feb. 2, 18
ress, lever	' Hazard Sharman	Scriba, N. Y	Nov. 1, 18
ress, lever	Jonathan Payne	Russelville, Ky	Sept. 9, 18
ress, lever*	H. G. Guvon	New York	
Press, lever, bottom, combined	Emanuel Venear	Halifay N Y	May 10 18
Deep lover, commend	Inha Domes	Maurice annter Tenn	Tan 91 19
ress, lever, compound	John Rogers	De la latation De	This of 10
ress, lever, progressive	Jacob Perkins	Philadelphia, Pa	
ress, lever, spiral	Abraham O. Stansbury	New York	
ress, lever, tackle, windlass	John B. Carpenter	Henderson, N. Y	Jan. 30, 18
ress, lever, windlass	Thaddeus Williams, jr.	Philadelphia, Pa	Aug. 31, 18
ress, oil		Massachusetts	
ress, oil		Egg Harbor, N. J.	
ress, oil		Hampton, Va	
ress, oil		Ashtabula, Ohio	May 20, 18
ress, oil, (improvement on Cun-	!	l .	I
ningham and Edmonston's)	Samuel S. Edmonston	New York	Sept. 1, 18
ress, oil, and straining	John Cunningham and		1
,,	S. S. Edmonston	New York	June 22, 18
Press, portable screw	Alexander Hallam	New Orleans, La	
	Alexander Hanam	new Orleans, Lat	Бера 14, 10
ress, printing -See Class 18.	(m) 357 FF		
ress, rotary, toggle joint	Thomas W. Harvey	Jamestown, N. Y	April 27, 18
Press, rotary, woollen, and cotton	1		Ì
goods†	Moses Bayley	Salisbury, Mass	July 5, 18
Press, screw		Cazenovia, N. Y	
ress, screw		Wilmington, Del	
ress, screw, for cotton		Knoxville, Tenn	
Press, screw, double		New Orleans	Sept. 4, It
Press, screw, and application to the		1	1
pressure of claime from tallow	Richard Jones	Circleville, Ohio	Oct. 9, 18
Press, seal			
Press, standing			
Press, standing			
ress, standing	Aaron Haie	Dosion, Mass	June 20, 10
Press, standing	Samuel Fairlamb		
ress, standing	Joel Barns	Philadelphia, Pa	April 17, 18
ress, standing, frame	Benjamin F. Brown	New York	Mar. 2, 18
ress, standing, frame, (improve-		1	1
ment on Brown's)	Robert Hoe	New York	April 22, 16
Proces standing loves and multi-		TION COLEMNIA	mpin and it
Press, standing, lever and pulley	Commo THT Commo	Barton Maria	10-4
power applied to			
ress, tobacco	Edmund Brown	, Richmond, Va	April 30, 18
Press, tobacco	Simon Frazer		
Press, tobacco	George Booker	Richmond. Va.	Feb. 8, 18
Press, tobacco	John W Weems	West Diver M4	Dec 15 16
Press, tobacco	A. M. McLean	rensseiante, which	Feb. 5, 18
	Lumas H Washington	Baltimore, Md	Oct. 12, 18
	Aumes II. As asning mi		
Press, tobacco Press, tobacco Press, tobacco	Thomas G. Hardesty.	Tracy's Landing, Md.	May 29, 18

^{*} Disclaimer, November 14, 1842. | Reissund Sept. 5, 1816.

Divinitions or discounting.	Pa thytels.	rendruce.	warn miued.
Press, tobacco	Joseph Bucey	West River, Md	Dec. 93 1941
Press, tobacco, cast iron cases	Granville D. Allen	Richmond, Va	June 30, 1827
Press, tobacco, double lever		New Glasgow, Va	Tune 9 1909
	Caleb Johnston		
Press, tobacco, flattener	Emanuel Shoavler	Richmond, Va	
Press, tobacco, and iron case	John Gallaway	Baltimore, Md	April 2, 1824
Press, tobacco, for rolled	James T. Bowman	Pattonbury, Va	
Press, toggle	John Hale	Hollis, N. H	
Press, tripple rafter	Robert Bradley	Natchez, Miss	June 4, 1834
Press, tub, for oleaginous seeds		Petersburg, Va	
Press, wedge		Oxford, Maine	
Press, wheel		Connecticut	Sent. 13 1803
Pressing, art of	Toponh Tinkles	Connecticut Massillon, Ohio	Aug 31 1831
		TT N II	Tul- 0 100
Pressing and boring	Robert Ramsey	Hanover, N. H	July 5, 1000
Pressing hay	Richard V. W. Thorn	New York	
Pressing hay	Moses B. Bliss	Pittstown, Maine	Jan. 26, 1826
Pressing hay, and binding	David C. Simmons and		1
• • •	Condy Raguet, ad-	1	į.
•	ministrator of James		1
	Simmons	Philadelphia, Pa	Nov. 7, 1809
Pressing hay, &c., wooden screws		I imaacipiim, I a	1, 2000
		Mandingham Ind	Mar 10 1921
for	John Morrison	Hardinsburg, Ind	Fab 00 1000
Pressing, hoisting, and lowering	Philip Freeman	Amboy, N.J Athens, Ohio	Feb. 20, 1822
Pressing, lever powers for	Robert Sanderson		
Pressing machine	Robert P. Cunningham	Pomfret, Conn	.! May 21, 1808
Pressing machine	Richard V. W. Thorne		1
3	and John Thorne	New York	Mar. 26, 1810
Pressing machine	Timothy Puffer	Paris, N. Y	
Pressing machine		Saybrook, Conn	, 000. 1, 1000
Pressing, machines for preparing			T 15 104
_ tobacco for	David Smith	South Hill, Va	
Pressing and raising weights	Thayer Cummings	Mayville, N. Y	
Pressing and raising weights	Alonzo S. Greenville	Camb'dge Port, Mass	s, Dec. 30, 183
Pressing and raising weights, ma		1	
chines for	Smith Cram	New York	. Mar. 9, 184
Raising and lowering weights	Ephraim Morris		July 5, 184
Raising and moving heavy weight		Diookiyii, 14. I	nug. 20, 104
Raising heavy bodies, and extract	D	0 1 37 37	G-4 15 109
ing stumps	Roswell H. Hall	Branchport, N. Y	. Sept. 15, 183
Raising heavy bodies, machinery	' ·	l	
for*	George Kilburn	Walpole, N. H	. Aug. 25, 183
Raising buildings, materials	Chester Samson	Brattleborough, Vt.	. Feb. 27, 183
Raising ships, &c., by cradle screw			
Raising ships, &c., by cradle screw			
Scales, counter	Eliphalet H. Parker	Nowhamberland D.	Tan 17 101
Screw, Archimedian		Northumberland, Pa	Jan. 17, 181
Screw, Archimedian	James Cooper		. Dec. 14, 181
Screw, Archimedian	Perry Harris	. Preble county, Onio	. Mar. 25, 152
Screw for propelling machinery.	William H. Godfrey	Rochester, N. Y	. Nov. 27, 182
Seals, notarial	John Frazer		
Tobacco cask, keg head See Cl			
Toggle joint, mode of adjusting		Williamsburg, N. Y	Inly 10, 184
Vice, perpetual lever		Gardiner, Maine	. Ittal. 2, 104
Weigh locks for weighing cans	T	D N 32	Tules 197 140
boats and other bodies			
Weighing boats and cargoes	. Eliazer Cady	. Canaan, N. Y	. Jan. 6, 183
Weighing canal boats	. Benjamin Bull	. New York	. June 20, 182
Weighing goods on board of boat		. Trov. N. Y	. June 18, 182
Weighing, packing, and pressin	P	1 === 3,, =	1
		. New York, N. Y	Tune 97 194
machine	Gilbert D. Jones	. TIEM TOLK, TA. I	. Juiro 21, 101
Weighing heavy bodies, apparatu	8	1	10
	Thaddens Fairbanks.	. St. Johnsburg, Vt.	. Sept. 15, 164
for			
Weights, cast iron, adjusting	. Aiden Babeock	. Boston, Mass	. Nov. 6, 181
Weights, cast iron, adjusting Weights, raising Weights, raising	. Aiden Babeock Henry Nold	. Bucks county, Pa	. Jan. 22, 101

^{*} Additional patent, December 31, 1838.

INVENTIONS OR DISCOVERIES.	PATENTEES.	rendence.	WREN 1960ED.
Winch and gin for loading vessels			
Windlass	Russel Evarts	Madison, Conn	May 30, 1838
Windlass	F. G. Cameron	New York	June 19, 1836
Windlass and capstan	John Calvin	Philadelphia, Pa	Oct. 6, 1810
Windlass or drums for raising			•
weights	Enoch Robinson	Boston, Mass	Feb. 28, 1849
Windlass power			
Windlass, ship's	Hez. Betta	Norwalk, Conn	Aug. 29, 1804
Windlass, ship's			
	L. V. Badger and Rich	200000, 22200000000	2, 2000
william, ourp o		Portsmouth, N. H	Inne 17, 1834
Windlass, ship's			
			1.00. 0, 1000
Windlass, ship's	assignees of A. Ham-		
	mond	Boston, Mass	Oct. 6, 1843
Windlass, for weighing anchors	John M. O'Brien	Brunswick, Maine	Nov. 9, 1838

CLASS No. XIII.

GRINDING MILLS,

And Mill-gearing, containing Grain Mills, Mechanical Movements, and Horse Powers, &c.

LIST OF PATENTS.

CLASS XIII.—GRINDING MILLS and Mill-gearing, containing Grain Mills, Mechanical Movements, and Horse Powers, &c.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	when issued.
Apples, grinding	Joel Farnham	Tioga, N. Y	June 28, 1825
Apples, grinding	Bela Churchell	Buckfield, Me	
Apples, grinding	Constant H. Weeks	Paris, N. Y	April 9, 1827
Apples, grinding	David Demarist	New Milford, N. Y.	Jan. 14, 1829
Apples, grinding	Jonathan R. Deane	Augusta town'ip, O.	
Apples, grinding, corn, bark	David Parmelee	Reading, Ct	Mar. 4, 1830
Apples, grinding, and making cider,			
apparatus for	G. W. D. Culp	Allenville, Indiana	Nov. 14, 1846
Apples, grinding, potatoes, and	Edmond Harris, James	!	
shelling corn.	Newton, Wil'd Web-	i	
	ster and Jehiel W.		
	Dart	Truxton, N. Y	Mar. 10, 1832
Apples, grinding, rotary cylinder.	Silas Freeman, jr	New Marlboro'Mass	
Apples, grinding, and shelling corn	Moses Morehouse	Butler county, Ohio.	Jan. 23, 1834
Apples, mill	H. E. Paine and S. H.		
	Russell	Le Roy, Ohio	Mar. 5, 1837
Balance, or fly wheel	J. Ordroman	New York	April 26, 1819
Bands	Samuel Sawyer	Boston, Mass	Mar. 30, 18 3 3
Bands, metallic, communicating		۱	3
power	Joseph Eve	Augusta, Ga	May 1, 1828
Bands, spiral wheel	Samuel S. Walley	Chester, Pa	Aug. 17, 1835
Bark, breaking	Nathan Sears	Hudson, N. Y	Oct. 31, 1890
Bark, grinding	Jonathan Kilborn	Connecticut	Aug. 23, 1800
Bark, grinding	David Pelton	Lyme, N. H	Sept. 30, 1815
Bark, grinding	Merrit Hurd	Augusta, N. Y	May 3, 1831
Bark, grinding, cracking corn	Milo J. Whiton Jos. Richardson and	Amsterdam, N. Y	April 30, 1834
Back, grinding, and packing	Benj. Stout	Bucks county, Pa	June 6, 1812
Bark, grinding, softening hides,		Ducks County, 14	June 0, 1014
grist mill.	Hosea E. Potter	Otsego, N. Y	Nov. 20, 1810
Bark mill	John Barclay	Pennsylvania	June 19, 1794
Bark mill	Thomas W. Pryor	Pennsylvania	May 21, 1805
Bark mill	Cornelius Toby	Hudson, N. Y	May 7, 1807
Bark milt	Paul Pilsbury	Newbury, Mass	Sept. 22, 1808
Bark mill	Luther Gale	Berkshire Co., Mass	
Bark mill	Caleb Churchman and	,	
	Geo. Martin	Upper Chichester, Pa	July 16, 1813
Bark mill	Jared Olds	Meriden, Ct	April 18, 1814
Bark mill	Luther Gale	Lenox, Mass	May 16, 1615
Bark mill	Alexander Tolson	Georgetown, D. C	June 2, 1891
Bark mill	E. and J. Trask	Sangerfield, N. Y	Nov. 22, 1821
Bark mill	James Elliot	Philadelphia, Pa	May 24, 1822
Bark milt	Cotton Foss	Madison, Ohio	Oct. 25, 1826
Bark mill	Aaron Bull	Caroline, N. Y	Mar. 27, 1828
Bark mill	John Montgomery	Sangerfield, N. Y	
Bark mill	Merrit Hurd	Augusta, N. Y	Feb. 1, 1830
Bark mill	Chas. H. Green and		
-	Rich'd Montgomery		
Bark mill	James T. Gifford	Veteran, N. Y	Feb. 27, 1830
Bark milt	Daniel Humberd and		35. 6- 46-
	Geo. Downs	McConneltown, Pa.	Mar. 27, 1830
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EDVERSONS OR DISCOVERSES.	PATERTURS.	rendence.	WHEN MUED
Bark mill	John Trask, Ahiman		
	Seabury, & William		
n 1'n	Young	Sangerfield, N. Y	April 17, 183
Bark mill	Charles Parker	Meriden, Conn	Nov. 25, 1837 Feb. 4, 1843
Bark mill	Backus A. Beardsley . Anson P. Norton and	Sangerfield, N. Y	Feb. 4, 1843
	Morris Owen	Sangerfield, N. Y	June 25, 1844
Bark mill	Amos Lindsey	Canton, Me	Dec. 26, 184
Bark mill *	Milo J. Whiton, ass'ee	Broadalbin, N. Y.	Oct. 25, 1845
Daule will baseleine and miniting	of Isaiah Scudder	Plattsville, N. Y.	
Bark mill, breaking and grinding.	Rich'd Montgomery & Lewis W. Harris	Sangerfield, N. Y	Aug. 12, 1840
Bark mill, cast iron	William Torrey	Westbrook, Me	Sept. 13, 182
Bark mill, cutting	Isaac Warrell	Pennsylvania	Mar. 17, 180
Bark mill, cutting and dye wood .	Ob. Pease and Asher		35 30 300
D. 1	Donalds	Norfolk, Ct	Mar. 18, 1806
Bark mill for grinding tanners' bark		Remsen, N. Y	Sept. 27, 1844
Bark, shaving, tanners'	W. and J. Goodwin	Lebanon, Ct	Oct. 16, 181. Nov. 29, 183
Bevel gear, universal	John Lewis	Burlington, Vt Hagerstown, Md	Mar. 19, 183
Bolt, flour	Robert C. Mauck	Honeyville, Va	Dec. 26, 184
Bolung flour, machine for	Elisha S. Snyder	Charlestown, Va	May 2, 1840
Bolts for bolting flour	Ryburn Buchanan	Sullivan co., Tenn	July 24, 1844
Bruising, beating, and outting sub-			
stances	Adam Britz	Philadelphia, Pa	July 18, 1810
Cattle mill	La Paype (Le Ainé)	Baltimore, Md	Nov. 4, 180
Chain frame	David Leslie	New York	Nov. 19, 1827 June 17, 1823
Chocolate, grinding	Geo. W. Waite	Augusta co., Va Baltimore, Md	June 25, 183
Chocolate, moulding	James Mathews	Baltimore, Md	June 25, 183
Cider mill	Timothy Showerman.	Covington, N. Y	July 20, 182
Cider mill	Moses Bliss	Pittston, Me	April 21, 182
Cider mill	Charles Rice	Barre, Mass	Nov. 11, 183
Cider mill	Nathan Booth	Cheshire, Ct	July 12, 183
Aider mill	Christian Sheaffer	Lebanon, Pa	Mar. 19, 1830
Sider mill	Elias Jenkins Philip Pryer	Geneses co., N. Y.	May 17, 1830 May 29, 1835
Sider mill, portable	Frederick Fredley	Sugar Valley, Pa	Aug. 3, 1836
ider mill, and press, horse power	Ozias Pettibone	Hartford, Conn	Mar. 1, 181
ider mill and press	Daniel Reed	Easton, Mass	Mar. 3, 1829
ider mill and press	Uri Emmons	New York	June 31, 1829
oder mill and press	Daniel Pride	Potsdam, N. Y	July 11, 1839
ider mill and bark mill	Isaac Quintard	Stanfield, Ct	April 5, 1806
	Thomas Bruff, sr Increase Wilson	Maryland	Jan. 8, 1798 Mar. 6, 1818
	Burrows Smith	Cincinnati, Ohio	June 9, 1816
	J. Sizer, adm'r of Zach.	, o <u>zzo</u> , o	0, 1020
	Waterhouse	New London, Ct	June 12, 1818
	James Carrington	Wallingford, Ct	April 3, 1829
	Ammi Clark	Berlin, Ct	Aug. 14, 1833
	C. W. Peckham	New Haven, Ct	April 13, 1836
	E. Morse and C. Put-	Meriden, Ct	June 19, 1837
onec mm		Knoxville, Tenn	Sept. 9, 1835
Coffee mill	John Rittenhouse	Germantown, Pa	July 2, 1839
	John Luther	Warren, R. I	Aug. 11, 1843
offee mill	Jesse Fitzgerald	New York	June 25, 1845
Coffee mill	Beriah Swift	Washington, N. Y.	Aug. 16, 1845
	Lawreston R. Living-	[
		Purchuse Pe	Nen 95 1840
Coffee mill, &c., constructing	ston & Calvin Adams	r manue, r a	oop. 20, 1010
Coffee mill, &c., constructing	ston & Calvin Adams Thos. H. Witherby &	J.	• ′
Coffee mill, &c., constructing	ston & Calvin Adams Thos. H. Witherby & Joseph Torrey	Milbury, Mass	July 17, 1832
Coffee mill, &c., constructing	ston & Calvin Adams Thos. H. Witherby & Joseph Torrey David Richmond	Milbury, Mass McArthurstown, O	July 17, 1832 Oct. 14, 1835



INVENTIONS OR DISCOVERIES.	PATHWREES.	. RAMED RIFER.	When seeded.
Coffee mill, and spice mill	Edmund Parker and		
Control mini, and spice mini	Herman M. White	Meriden, Ct	June 22, 1832
Coffee mill, and spice mill	Ammi Clark	Berlin, Ct	July 20, 1832
Cog wheel, suspended by machi-		,,	,,
nery	James Cooper	Staunton, Va	Mar. 22, 1826
Cooler, flour	Hebard, Catlin, & Abell		May 22, 1835
Cooler, flour	Josiah Pope	Windham, Me	Feb. 5, 1836
Cooling flour, worm for	John Smelzer	Adam county, Va	May 6, 1818
Cooler, sifter, grain, and berries.	Armstrong and King .	New York	May 9, 1835
Corn breaker*	Webber Furbish	Hallowell, Me	Mar. 15, 1833
Corn and corn bobs, breaking and	l l _	-	·
grinding	James & Wm. Murray	Baltimore, Md	Feb. 12, 1842
Corn crasher	Samuel K. Gaunt	Greenville, Tenn	May 25, 1827
Corn, grinding	Jarvis Webster	Phi!adelphia, Pa	July 31, 1826
Corn, grinding, and cotton seed	James Martin	Petersburg, Va Henrico, Va	May 16, 1835
Corn, grinding, on the cob	William Mayo	Henrico, Va	May 15, 1812
Corn, grinding, and crushing	Andrew P. H. Jordan	Madisonville, Tenn.	Oct. 28, 1885
Corn, grinding, in the ear Corn, grinding, by hand or horse		E. Bloomfield, N. Y.	Jan. 10, 1834
power	Benjamin Hinkley	New York	Mar. 10, 1884
Corn, grinding, and shelling	Levi Stevens	New York	May 8, 1804
Corn, grinding, and shelling	Samuel Fowkes	Catskill, N. Y	May 4, 1825
Corn, grinding, and shelling	Geo. M. Weaver	Montgomery co., Pa.	
Corn, grinding, and shelling Corn, grinding, and shelling, and		Philadelphia, Pa	May 12, 1884
family mill		Mendon, N. Y	June 13, 1831
_ thrashing	Daniel Mullier	Worcester, Ohio	Jan. 24, 1832
Crank, anti-friction	Benj. L. Oliver	Salem, Mass	Mar. 9, 1891
Crank, wheel	James Stedwell, 3d	Carmel, N. Y	Nov. 25, 1823
Crank, wheel motion	James Wallace	Columbia, S. C	
Cylinder, multiplying, hollow	Thomas Powell	New York	Dec. 3, 1813
Dog power	Anthony Tiernan	New York	April 27, 1818
Drums, soldering, strengthening	Table N Design	Wanastan Mana	T 09 1000
factory	Luke N. Perry	Worcester, Mass	
Elevating grain by blowing	Jer. Bailey	Chester co., Pa	Mar. 5, 1810
Elevating grain	Jer. Bailey	Kennetts square, Pa.	June 19, 1812
Elevating meal, pump for	John Ewing and David	Orford Pa	On 9 1912
Elemeter bushes	Nolsen C. Stepler	Oxford, Pa	Oct. 2, 1813
Elevator bucket	Nelson C. Staples	Lynchburg, Pa	June 29, 1833
Elevator bucket, or hopper boy	Samuel Walgemore George L. Stearns	Washington, D. C	Feb. 22, 1812
Flaxseed, grinding	Archibald Cross and	Boston, Mass	Aug. 17, 1838
racieco, pana, ac., grinding	Ezra Brown	Cazenovia. N. Y	Feb. 4, 1830
Flour, bolting and dressing	John Hean	Annville, Pa	
Flour mill	Jonathan Thompson.	Ashtabula, Ohio	July 7, 1830
Flour, &c., manufacturing	Oliver Evans	Philadelphia, Pa	Dec. 18, 1796
Flour, &c., manufacturing	Jos. Rich	Madison co., N. Y	Jan. 27, 1812
Flour, manufacturing	Andrew D. Worman.	Fredericktown. Md.	July 23, 1841
Flour and meal, bolung	Wm. H. Akins	Berkshire, N. Y	Dec. 3, 1829
Flouring mills, combining smur with scouring stones		Sparta, N. J	April 21, 1829
Flour, power, vibrating, for sepa-		•	•
rating	Benj. Calver	Glastonbury, Ct	Oct. 6, 1830
Flour, preserving	William Wood, jr	ich Olainanilla Obia	Dec. 4, 1824
Flour, preserving	E. Hord & B. Brown-		30 30 40
	ing	Fleming county, Ky	Mar. 12,
Frame work of mills		Sussex county, Va	July 14,
Friction, cylinder, co-operating		Roxbury, Md	Jan. 34
Friction, preventing		Philadelphia, Pa	
Friction, reducing	John J. Reekers	Baltimore, Md	June 1:
Friction, reducing, of axles	Issac Cooper	Baltimore, Md	Sept. X
Friction, reducing, in mill gudge ons	4		

^{*}Reissued Dec. 25, 1833. †Renewed January 21, 1808, by Congress

MITENIONS OR DESCRIBE	PATISHTESS.	rrndence.	WEEN INVEN
			-
Friction rollers	David Baldwin	Queensbury, N. Y	Oct. 1, 1830
Friction rellers	James D. Cobb	Lebanon, Ohio	June 22, 1832
Friction rollers	George Danforth	Centreviile, Ill	May 17, 1833
Friction rollers	Benj. Stancliffe	Philadelphia, Pa	Dec. 31, 1833
Friction rollers	Isaac Clowes	Norfolk, Va	Sept. 9, 1834
Friction rollers*	Rollin Dickinson and S. G. Merriman	Souihington, Ct	•
Georgian for driving machiners			
Gearing, for driving machinery	Jesse Urmy	Wilmington, Del	
Gearing mills		Barry's Bridge, Va.	
veying, cooling, bolting	Aaron Bull	Caroline, N. Y	Jan. 16, 1840
Grain, shouldering machine	John Kinman	Mifflinsburg, Pa	Mar. 15, 1834
Grinder, eliptical spindle		Providence, R. I	May 28, 1834
Grinding apples, &c	Thomas J. Wells	New York	
Grinding corn, &c., mills for	Francis Price	New York, N. Y	Feb. 20, 1843
Grinding corn with cob, mill for	James M. Miller	Mobile, Ala	
Grinding, corn and cob, mill for.	E. A. Knowlton	Columbia, S. C	Feb. 12, 1843
Grinding, corn and cob, mill for	Jesse Urney	Wilmington, Del	Oct. 25, 1845
Grinding, corn and cob, mill for	James P. Ross	Lewisburg, Pa	Nov. 1, 1844
Grinding, corn and cob, mill for. Grinding and crushing corn, mill		Mexico, Pa	
for	J. C. & C. B. Baldwin	Virginia	June 26, 1839
Grinding cylinders	Jonathan Bridges	Troy, N. Y	
Grinding grain, cylindrical mill for		Troy, N. Y	
Grinding grain, mills for	Eli B. Nichols and Da-		July 22, 200
G 8 8. m.m. m.m. com return 1	vid Marsh	Fairfield, Ct	Mar. 13, 1844
Grinding grain, portable mill for.		Otego, N. Y	Mar. 9, 1844
Grinding grain, paint, drugst		London, England	
Grinding mills		Bridgeport, Ct	Dec. 26, 184
Grinding mills		Nicholasville, Ky	Feb. 12, 1844
Grinding and pounding		New Haven co., N. C	
Grind stones, grinding tools	Charles Arthur	Keeseville, N. Y	Aug. 26, 184
Grist mill	Jona. Curtis	Philadelphia, Pa	Aug. 24, 179
Grist mill	Hadilard Chase	New York	Dec. 16, 179
Grist mill	Benjamin Tyler	New Hampshire	Feb. 20, 1800
Grist mill	George W. Holley	Connecticut	Mar. 27, 180
Grist mill		Georgetown, Del	
Grist mill	Ez. Hale	Haverhill, Mass	Feb. 22, 180
Grist mill		Lancaster, Pa	May 21, 180
Grist mill	Rufus W. Adams	Marlborough, Vt	
Grist mill		Pennsylvania	
Grist mill		Leicester, Pa	
Grist mill	1		
Grist mill	Abm. Sawyer	Chester, Vt	
Grist mill	John Ormsby & Tho-	New London, Ct	
or the contri	mas Cohoon	Washington, D. C	
Grist mill		Pennsylvania	
Grist mill	Samuel Brewster	Middlesex, N. J	
Grist mill	J. & D. Hascall	Likay, N. Y	
Griet mill		Buckfield, Me	Dec. 11, 182
Grist mill			
	and J. Trask		Sept. 26, 182
Grist mill	Jos. Ives		Dec. 2, 182
Grist mill	Francis Harris and J.		
	_ Wilson		June 9, 189
Grist mill	Isaac Ryon		
Olline Illill	Jedediah Northorp	Woodbridge, Ct	July 31, 182
Grist mill		Greensburg, N. C	Oct. 20, 182
Grist mill	Moses Mendenhall	Greensours, In. C	
	Moses Mendenhall Anthony Beneine	Caswell, N. C	
Grist mill	Anthony Beneine	Caswell, N. C	Jan. 16, 182
Grist mill	1	Guilford co., N. C	Jan. 16, 182 Jan. 19, 182
Grist millGrist millGrist millGrist millGrist mill	Anthony Bencine William Benbow Thomas Newman	Guilford co., N. C Guilford co., N. C	Jan. 16, 182 Jan. 19, 182 Feb 6, 182
Grist millGrist millGrist millGrist millGrist millGrist millGrist millGrist millGrist mill	Anthony Bencine William Benbow	Caswell, N. C Guilford co., N. C Guilford co., N. C Greensborough, N.C.	Jan. 16, 182 Jan. 19, 182 Feb 6, 182

^{*}Antedated September 28, 1837. † Bate of English patent July 21, 1845.

mygnitions or discovering.	PATRICTOR.	Daments.	William Street,
Grist mill	Rob. S. Thomas		June 4, 1827
Grist mill	Wm. W. Forward	Hartford co., Md	June 15, 1927
Grist mill			
Grist mill			July 18, 1827
Grist mill			July 21, 1827
Grist mill			
Grist mill		Warren, Ohio	1
Grist mill			
Grist mill			
Grist mill			
Grist mill		Fort Plain, N. Y	
Grist mill		Wheeling, Va	July 31, 1829
Grist mill			
a	T. Grozer	E. Fairfield, Ohio	
Grist mill		Frankport, Me	Dec. 23, 1829
Grist mill*	Jesse C. Smith	Lacon, Ill	
Grist mill		New London, Conn	
Grist mill	Aaron Porter	New London, Ind	
Grist mill		Claridon, O	
Grist mill	. Ephraim Griswold	Truxton, N. Y	Oct. 16, 1886
Grist mill		Georgetown, D. C	Feb 11, 1831
Grist mill		Ashtabula, O	Mar. 18, 1831
Grist mill		Louisville, Ky	May 3, 1831
Grist mill			
a	John Holliday	Wilmington, Del	May 12, 1831
Grist mill			
G tex estill	C. Ambler	New Berlin, N. Y	June 13, 1831
Grist mill		1	1
	lard Webster, & Hir.	(D	T 1 00 1001
a :	Webster	Truxton, N. Y	July 20, 1831
Grist mill	Ezra Brees	Kingston, Pa	Sept. 28, 1831
Grist mill		Windsor, N. Y	Jan. 27, 1832
Grist mill	Amos Barnes	Colesville, N. Y	
Grist mill		Hancock, N. Y	
Grist mill	. Asahel Bacon	Windsor, N. Y	
Grist mill		Philadelphia, Pa	July 14, 1032
Grist mill	D. Parmlee and J. C.	Kingston De	A
Order and III	Shoemaker	Kingston, Pa	April 16, 1833
Grist mill	Luther Olds	Otsego, N. Y	Tune 1 1033
Grist mill	. Moses W. Chapman.	Girard, Pa	
Grist mill	. Reuben Kendall Adna L. Norcross	Wilkes county, Ga	
Grist mill		Hallowell, Me	
Grist mill		Providence, R. I	Aug. 19, 1634
Grist mill			Inna 6 1004
Christ mill	bee, & E. B. Cutts.	Hallowell, Me	June 6, 1834
Grist mill	H. P. Nuckols & Poun		T 01 100E
Cuint mill	cey Nuckols	Barren county, Ky	
Grist mill	John R. Sleeper	Philadelphia, Pa	
Grist mill	Adna L. Norcross	Hallowell, Me	
Griet mill	Phillip Hauser	Cincinnati, Ohio	
Grist mill	Owen Moses	Malone, F. co. N. Y	
Grist mill	Samuel Hyde	Majone, N. Y	140V. 20, 1035
Grist mill	. W. & J. McCreight.		red. 3, 1636
Grist mill	Oliver Wyman	watertown, Mass.	July 1, 1836
Grist mill	. Oliver Wyman	E. Cambridge, Mase	Dec. 20, 1837
Grist mill			May 17, 1838
Grist mill			
a	of Ezra Goodell	Port Lawrence, O	Oct. 10, 1838
Grist mill	. Elijah S. Curtiss	Boston, Mass	Nov. 23, 1837
Grist mill		Pittsburg, Pa	Jan. 8, 1839
Grist mill	Oliver Wyman	J.E. Cambridge Mass	el Amril 18, 1839

^{*} Reis sued September 25, 1837.

Grist mill.			1	
Grist mill Edward Gray Ulysses, N. Y Mar. 25, 1840 Grist mill Edward Edward New York Feb. 20, 1841 Grist mill Clark B. Gregory Danbury, Ct. Feb. 16, 1841 Grist mill Clark B. Gregory Danbury, Ct. Feb. 16, 1843 Grist mill Clark B. Gregory Danbury, Ct. Feb. 16, 1843 Grist mill Clark B. Gregory Danbury, Ct. Feb. 16, 1843 Grist mill Clark B. Gregory Danbury, Ct. Feb. 16, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Clark B. Gregory Danbury, Ct. Sept. 28, 1843 Grist mill Consical. Gregory Danbury, Ct. Gregory Danbury, Ct. Sept. 28, 1844 Grist mill Consical. Gregory Danbury, Ct. Gregory Danbur	medications or discoveries.	PATENTERS.	residence.	WHEN ISSUED.
Grist mill Edward Gray Ulysses, N. Y Mar. 25, 1840 Grist mill Edward Gray New York Feb. 20, 1841 Grist mill Clark B. Gregory Danbury, Ct. Get. 9, 1841 Grist mill Clark B. Gregory Danbury, Ct. Feb. 16, 1841 Grist mill Clark B. Gregory Danbury, Ct. Feb. 16, 1841 Grist mill Clark B. Gregory Danbury, Ct. Sept. 26, 1843 Grist mill Gon Bicknell*s James Rumsey Berkley co. Va. Aug. 21, 1844 Grist mill Gon Bicknell*s James Rumsey Berkley co. Va. Aug. 26, 1791 Grist mill Gon Bicknell*s James Rumsey Berkley co. Va. Aug. 26, 1791 Grist mill Gon Bicknell*s James Rumsey Berkley co. Va. Aug. 26, 1791 Grist mill Gon Bicknell*s James Rumsey Grist mill Gon Bicknell*s Grist mill Gon Bicknell*s Grist mill Gonical Grist mill	Grist mill	Henry Pearce	Cincinnati, Ohio	July 28, 1839
Grist mill.				
Grist mill	Grist mill		New York	
Grist mill. (on Barker's). Grist mill. (on Bicknell's). Grist mill. (on Bicknell's). Mody Stockman. James Rumsey. James Rumsey. James Rumsey. Berkley co., Va. Aug. 21, 1844 Grist mill. (on Bicknell's). James Rumsey. Berkley co., Va. Aug. 26, 1791 Grist mill. (on Bicknell's). James Rumsey. Berkley co., Va. Aug. 26, 1791 Grist mill. (on Bicknell's). James Rumsey. Berkley co., Va. Aug. 26, 1791 Grist mill. (on Bicknell's). James Rumsey. Worcester, Masss. Nov. 17, 1826 Grist mill. and chopping grain. Jacob Stroub. Charleston, S. C. C. May 14, 1825 Grist mill. conical. Grist mill. conical. Grist mill. conical. Grist mill. conical. Grist mill. constructing. Grist mill. constructing. Elish Holton. Grist mill. constructing, bales and drivers for. Grist mill. constructing. Grist mill. constructing. Grist mill. for cutting. William Gerish. Harvey W. Pitts. John G. Morse. Grist mill. family. Paril Rangey. David Flagg. jr. Gradiner, Me. Grist mill. family. Paril Rangey. William Grist nill. Grist mill. and flour. David Flagg. jr. Gradiner, Me. Grist mill. and grinding paints. Grist mill. portable. Hartford, Ct	Grist mill	Josiah Platt	Weston, Ct	Oct. 9, 1841
Grist mill. (on Barker's). Grist mill. (on Bicknell's). Grist mill. (on Bicknell's). Mody Stockman. James Rumsey. James Rumsey. James Rumsey. Berkley co., Va. Aug. 21, 1844 Grist mill. (on Bicknell's). James Rumsey. Berkley co., Va. Aug. 26, 1791 Grist mill. (on Bicknell's). James Rumsey. Berkley co., Va. Aug. 26, 1791 Grist mill. (on Bicknell's). James Rumsey. Berkley co., Va. Aug. 26, 1791 Grist mill. (on Bicknell's). James Rumsey. Worcester, Masss. Nov. 17, 1826 Grist mill. and chopping grain. Jacob Stroub. Charleston, S. C. C. May 14, 1825 Grist mill. conical. Grist mill. conical. Grist mill. conical. Grist mill. conical. Grist mill. constructing. Grist mill. constructing. Elish Holton. Grist mill. constructing, bales and drivers for. Grist mill. constructing. Grist mill. constructing. Grist mill. for cutting. William Gerish. Harvey W. Pitts. John G. Morse. Grist mill. family. Paril Rangey. David Flagg. jr. Gradiner, Me. Grist mill. family. Paril Rangey. William Grist nill. Grist mill. and flour. David Flagg. jr. Gradiner, Me. Grist mill. and grinding paints. Grist mill. portable. Hartford, Ct	Grist mill	Clark B. Gregory	Danbury, Ct	Feb. 16, 1843
Grist mill, (on Barker's). Grist mill, (on Bicknell's). Grist mill, (on Bicknell's). Grist mill, uon Bicknell's). Grist mill, bush for. Grist mill, uast iron. Hy. Bailey. Grist mill, and chopping grain. Grist mill, conical. Grist mill, conical. Grist mill, conical. Grist mill, constructing. Grist mill, constructing. Grist mill, constructing, bales and drivers for. Grist mill, for cutting. Grist mill, family. Peter M. Wright. Grist mill, gate pressure. Grist mill, and grinding paints & plants de plaster. Grist mill, and grinding paints & grist mill, and grinding paints & grist mill, and grinding paints & grist mill, horizontal. Grist mill, pressure or weighted. Grist mill, pressure or weighted. Grist mill, protable. Grist mill, protable. Grist mill, prossure or weighted. Grist mill, protable. Grist mill, scew. Grist mill,			Weston, Ct	Sept. 28, 1843
Grist mill, (on Bicknell's) Grist mill, (on Bicknell's) Grist mill, bush for. Grist mill, sati iron Hampton, N. H. April 8, 1838 Grist mill, and coffee mill Grist mill, and coffee mill Grist mill, and coffee mill Daniel and John Fitzgerald Grist mill, conical Grist mill, constructing Grist mill, constructing, bales and drivers for Grist mill, crusher and sheller Grist mill, crusher and sheller Grist mill, grusher and sheller Grist mill, and grinding paints de place term of the place of the pla			Brooklyn, N. Y	Aug. 21, 1844
Grist mill, (on Bicknell's) Grist mill, and thopping grain Pierson Cope. Grist mill, and chopping grain Pierson Cope. Grist mill, and chopping grain Pierson Cope. Grist mill, and coffee mill. Grist mill, conical. Grist mill, conical. Grist mill, conical. Grist mill, conical. Grist mill, constructing. Grist mill, constructing bales and drivers for. Grist mill, constructing, bales and drivers for. Grist mill, constructing, bales and drivers for. Grist mill, constructing, bales and drivers for. Grist mill, constructing. Grist mill, constructing. Grist mill, for cuuting. Washington 'p. Pa. Aug. 17, 1835 Charleston, S. C. Sept. 6, 1833 New York. Oct. 30, 1834 Cincinnati, Ohio. Sept. 11, 1841 Cincinnati, Ohio. Mar. 31, 1846 Cincinnati, Ohio. Mar. 32, 1826 Cincinnati, Ohio.		James Rumsey	Berkley co., Va	Aug. 26, 1791
Grist mill, usat iron Hy. Bailey. Hartford, Ct. May 14, 1825 Grist mill, and chopping grain Pierson Cope. Washington 'p., Pa. Aug. 17, 1835 Grist mill, conical. Daniel and John Fitzgerald. Samuel Sheldon. Cincinnati, Ohio. Sept. 11, 1841 Grist mill, constructing. Samuel Sheldon. Cincinnati, Ohio. Sept. 11, 1841 Grist mill, constructing, bales and drivers for Grist mill, corestrouting, bales and drivers for William Gerrish Ports mill, for cutting. William Gerrish Ports mill, double centred Benjamin Dearborne. Mascachusetts. April 3, 1835 Grist mill, double centred Benjamin Dearborne. Grist mill, family. David Flagg, jr. Gardiner, Me. Feb. 23, 1836 Grist mill, and grinding paints. Grist mill, horizontal. Grist mill, increasing the power of Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, portable. Barton N. Fyler Bartford, Ct. Aug. 25, 1809 Grist mill, and sawing, construct group of Control Moore. Grow Mill, and pair aware wheel	Grist mill, (on Bicknell's)	Moody Stockman		
Grist mill, and coffee mill. Grist mill, and coffee mill. Grist mill, conical. Grist mill, conical. Grist mill, conical. Grist mill, conical. Grist mill, constructing bales and drivers for. Grist mill, constructing. Grist mill, constructing. Grist mill, constructing bales and drivers for. Grist mill, constructing. Grist mill, double centred. Grist mill, double centred. Grist mill, damily. Grist mill, family. Grist mill, family. Grist mill, family. Grist mill, and flour. Grist mill, and grinding paints. Grist mill, on Haskins'). Grist mill, horizontal. Grist mill, horizontal. Grist mill, portable. Grist mill, portable. Grist mill, portable. Grist mill, portable. Grist mill, scew. Grist mill, scerw. Grist mill, scew. Grist mill, scerw. Grist	Crist mill, (on Bicknell's)	James Bemis	Worcester, Mass	Nov. 17, 1826
Grist mill, and chopping grain. Grist mill, and cofoe mill. Grist mill, conical. Grist mill, conical. Grist mill, constructing. Grist mill, constructing, bales and drivers for mill, created at mill, constructing. Grist mill, constructing, bales and drivers for mill, created at mill, constructing. Grist mill, constructing, bales and drivers for mill, constructing. Grist mill, constructing, bales and drivers for mill, constructing, bales and drivers for mill, constructing. Grist mill, constructing bales and drivers for mill, constructing, bales and drivers for mill, drivers and sheller. Grist mill, constructing bales and drivers for mill, driver				
Grist mill, and coffee mill. Grist mill, conical. Grist mill, conical. Grist mill, constructing. Grist mill, family. Grist mill, family. Grist mill, family. Grist mill, and grinding paints. Grist mill, horizontal. Grist mill, horizontal. Grist mill, horizontal. Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, portable. Grist mill, self-stopper. Grist mill, and sawing, construct's Grost mill, and sawing, construct's Grist mill, and sawing, construct's Grist mill, and sawing, construct's Grist mill, portable. Grist mill, self-stopper. Grost mill, self-stopper.				
Grist mill, conical				
Grist mill, constructing. Grist mill, constructing, bales and drivers for. Grist mill, constructing, bales and drivers for. Grist mill, for cutting. Grist mill, for cutting. William Gerrish. Grist mill, double centred. Benjamin Dearborne. Grist mill, damly. David Flagg, jr. Grist mill, family. David Flagg, jr. Grist mill, and flour. Isaac Straub. Grist mill, and grinding paints. Grist mill, horizontal. Grist mill, horizontal. Grist mill, horizontal. Grist mill, horizontal. Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, portable. Grist mill, portable. Grist mill, portable. Grist mill, portable. Grist mill, poresure or weighted. Grist mill, portable. Grist mill, poresure or weighted. Grist mill, scouring and hulling. Grist mill, scouring and hulling. Grist mill, portable. Grist mill, scouring and hulling. Grist mill, portable. Grist mill, scouring and hulling. Grist mill, scouring and hulling. Grist mill, scouring and hulling. Grist mill, portable. Grist mill, scouring and hulling. Grist mill, poreasune or weighted. Grist mill, scouring and hulling.			Charleson, S. C	Dept. 0, 1000
Grist mill, constructing. Grist mill, constructing bales and drivers for. Grist mill, constructing, bales and drivers for. Grist mill, crusher and sheller. Grist mill, for cutting. Grist mill, for cutting. Grist mill, cytinder. Harvey W. Pitts. Benjamin Dearborne. Grist mill, family. Peter M. Wright. New York. April 3, 1835 Grist mill, family. Peter M. Wright. New York. April 3, 1849 Grist mill, and flour. Grist mill, and flour. Grist mill, and grinding paints. Grist mill, and grinding paints. Grist mill, and grinding paints. Grist mill, or Haskins'). Grist mill, horizontal. Grist mill, horizontal. Grist mill, horizontal. Grist mill, horizontal. Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, portable. Grist mill, portable. Grist mill, portable. Grist mill, portable. Grist mill, and swingl combined. Grist mill, portable. Grist mill, and swingl combined. Grist mill, self-stopper. Rober Banes Grist mill, self-stopper. Rober Banes Grist mill, and swingl combined. Grist mill, and spiral water wheel Alexander Temple. Grist mill, sugar loaf. Samuel Fowkes. John Andrews. John Andrews. Benjamin Dearborne. Benjamin Dearborne. William Gerrish. New York. June 26, 1835 Littleton, Mass. April 2, 1849 Massachusetts. April 3, 1849 Marsachusetts. April 4, 1842 Grist mill, family. Cephas Manning. Littleton, Mass. April 2, 1845 Littleton, Mass. April 2, 1845 Euclid, Ohio. Feb. 25, 1830 America, N.	on and the state of the state o		New York	Oct. 30 1834
Grist mill, constructing, bales and drivers for	Grist mill, conical	Samuel Sheldon		
Grist mill, constructing, bales and drivers for		Elisha Holton		
Grist mill, crusher and sheller. Grist mill, for cutting. Grist mill, for cutting. Grist mill, for cutting. Grist mill, cylinder. Grist mill, double centred. Grist mill, family. Grist mill, family. Grist mill, family. David Flagg, jr. David Flagg, jr. David Flagg, jr. Gradiner, Me. Feb. 23, 1826 Feter M. Wright. New York. April 30, 1799 Randolph t'p, N. C. Grist mill, family. David Flagg, jr. Gradiner, Me. Feb. 23, 1826 Randolph t'p, N. C. William Gerrish. Harvey W. Pitts. Wilsonville, Ala. July 1, 1840 Massachusetts. April 30, 1799 Radioner, Me. Feb. 23, 1826 Randolph t'p, N. C. Gradiner, Me. Feb. 23, 1826 Randolph t'p, N. C. Jule 3, 1849 Portsmouth, N. H. Jan. 11, 1836 Mar. 20, 1827 Portsmouth, N. H. Jan. 11, 1836 Mars 20, 1827 Portsmouth, N. H. Jan. 11, 1836 Mars 20, 1827 Portsmouth, N. H. Jan. 11, 1836 Mars 20, 1827 Portsmouth, N. H. Jan. 11, 1836 Mars 20, 1827 Portsmouth, N. H. Jan. 11, 1836 Mars 20, 1829 Mars 20, 1829 May 9, 1834 New York. April 30, 1829 Milliam S. Johnson New York. June 4, 1832 Merist mill, and grinding paints & plants	Grist mill, constructing, bales and			
Grist mill, for cutting. Grist mill, for cutting. Grist mill, for cutting. Grist mill, cylinder. Harvey W. Pitts. Benjamin Dearborne. David Flagg, jr. David Flagg, jr. David Flagg, jr. Peter M. Wright. Seaver Frentiss. Grist mill, and grinding paints & snuff. Grist mill, horizontal Grist mill, horizontal Grist mill, horizontal Grist mill, increasing the power of Grist mill, iron. Grist mill, portable. Grist mill, portable. Grist mill, portable. Grist mill, pressure or weighted. Grist mill, pressure or weighted. Grist mill, scouring and hulling. Grist mill, sugar loaf. Grist mill, sugar loaf. Grist mill, working. Grist mill, working. Grist mill, working. Grist mill, vertical, cylindrical foot Grist mill, working. John Andrews. John Misson. Randolph 'p, N. C. William Gerrish. Wilsonville, Ala. Visioaville, Ala. Visioaville, Ala. Visioaville, Ala. July 1, 1836 April 30, 1829 Gradfort, Me. New York. April 4, 1835 April 2, 1846 April 4, 1835	drivers for	Ezra R. Benton	Ohio city, Ohio	Mar. 31, 1849
Grist mill, cylinder. Harvey W. Pitts. Wilsonville, Ala. July 1, 1846 Grist mill, double centred. Benjamin Dearborne. Grist mill, family. David Flagg, jr. Gardiner, Me. Feb. 23, 1826 Grist mill, family. David Flagg, jr. Gardiner, Me. Feb. 23, 1826 Grist mill, and flour. Seaver Prentiss. New York. April 14, 1835 Grist mill, and grinding paints & Seaver Prentiss. New York. June 4, 1832 Grist mill, and grinding paints & Plantill, and grinding pa	Grist mill, crusher and sheller	John G. Morse		
Grist mill, fouble centred		William Gerrish		
Grist mill, family			Wilsonville, Ala	July 1, 1840
Grist mill, and flour. Grist mill, and flour. Grist mill, and grinding paints. Grist mill, (on Haakins'). Grist mill, horizontal. Grist mill, horizontal. Grist mill, horizontal. Grist mill, horizontal. Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, portable. Grist mill, sceouring and hulling. Grist mill, scouring and hulling. Grist mill, scouring and hulling. Grist mill, with small stones. Grist mill, with small				April 30, 1799
Grist mill, and grinding paints. Grist mill, (on Haskins'). Grist mill, horizontal. Grist mill, horizontal. Grist mill, horizontal. John Wilson. John Wilson. John Wilson. Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, portable. Grist mill, percussion. Grist mill, percussion. Grist mill, protable. Grist mill, pressure or weighted. Grist mill, pressure or weighted. Grist mill, and saw mill combined. Grist mill, sand saw mill combined. Grist mill, and say mill combined. Grist mil				
Grist mill, and grinding paints. Grist mill, and grinding paints & sauff. Grist mill, and grinding paints & plaster. Grist mill, and grinding paints & plaster. Grist mill, (on Haskins'). Grist mill, horizontal. Grist mill, horizontal. Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, portable. Grist mill, percussion. Grist mill, percussion. Grist mill, portable. Grist mill, and saw mill combined. Grist mill, scouring and hulling. Grist mill, with small stones. Grist mill, sugar loaf Grist mill, and spiral water wheel Grist mill, and spiral water wheel Grist mill, working. Grist mill, worki	Crist mill, lamily			April 14, 1835
Grist mill, and grinding paints & snuff				May 9, 1834
Grist mill, and grinding paints & snuff Grist mill, and grinding paints & plaster Grist mill, and grinding paints & plaster Grist mill, horizontal. Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, increasing the power of Grist mill, portable. Grist mill, pressure or weighted. Grist mill, pressure or weighted. Grist mill, socouring and hulling. Grist mill, socouring and hulling. Grist mill, self-stopper. Grist mill, self-stopper. Grist mill, sugar loaf. Grist mill, sugar loaf. Grist mill, with small stones. Grist mill, sugar loaf. Grist mill, sugar loaf. Grist mill, vertical, cylindrical foot Grist mill, working. Grist mill, warking. Gr		4 4		
Grist mill, and grinding paints & plaster	Grist mill and grinding paints	iry. Averm	Richand, N. 1	Then 30, 1023
Grist mill, and grinding paints & cephas Manning. Grist mill, (on Haskins'). Grist mill, horizontal. Grist mill, portable. Grist mill, self-stopper. Groat mill, self-stopper. Groat mill, self-stopper. Groat mill, self-stopper. Grist mill,	anuff	William S. Johnson	New York	Tune 96 1835
plaster	Grist mill, and grinding paints &		TIOW TOLK	June 20, 1000
Grist mill, for Haskins')		Cephas Manning	Littleton, Mass	April 2, 1835
Grist mill, horizontal	Grist mill, (on Haskins')			
Grist mill, horizontal			Hartford, Ct	Aug. 25, 1809
Grist mill, increasing the power of Grist mill, iron	Grist mill, horizontal	Jonathan Reynolds	America, N. Y	Mar. 15, 1827
Grist mill, increasing the power of Grist mill, portable. Grist mill, percussion	Grist mill, and hulling			
Grist mill, icon				
Grist mill, percussion				
Grist mill, percussion	Grist mill (on Mendenhall's)		wasnington, D. C	April 11, 1029
Grist mill, portable	Grass min, (on receited man s)		Stateswille N C	Tuna 11 1997
Grist mill, portable	Grist mill, percussion.	Fones McCarthy		
Grist mill, pressure or weighted. Grist mill, pressure or weighted. Grist mill, regulated. Grist mill, and sawing, construct'g Grist mill, scouring and hulling. Grist mill, scouring and hulling. Grist mill, self-stopper. Grist mill, self-stopper. Grist mill, with small stones. Grist mill, and spiral water wheel Grist mill, and spiral water wheel Grist mill, vertical, cylindrical foot Grist mill, vertical, cylindrical foot Grist mill, working. James Rumsey. Michael Withers. Gradgeon, friction rollers for. Gudgeon, self-acting box for. John Shugert. Grist mill, celicination, Ohio. New Berlin, N. Y. Dec. 6, 1830 New Berlin, N. Y. Boston, Mass. Nov. 17, 1831 Nov. 17, 1832 Nov. 17, 1832 April 20, 1831 Evans, N. Y. Mar. 18, 1835 Brookfield, Ohio. Dec. 11, 1829 Brookfield, Ohio. Berkley co., Va. Aug. 26, 1791 Gudgeon, friction rollers for. Martin C. Forrist. Feb. 3, 1812 Tuscaloosa, Ala. July 7, 1835 Nov. 17, 1831 Nov. 17, 1831 Boston, Mass. Nov. 17, 1831 Nov. 18, 1839 April 20, 1831 Feb. 18, 1840 Cincinnati, Ohio. Feb. 18, 1840 New Broin, N. Y. April 20, 1831 Feb. 3, 1812 Tuscaloosa, Ala. July 7, 1835 Roston, Mass. Nov. 17, 1831 Boston, Mass. Nov. 17, 1831 Boston, Mass. Nov. 17, 1831 Boston, Mass. Nov. 18, 1841 Evans, N. Y. Mar. 28, 1810 April 1, 1842 Forborough, Mass. April 21, 1842 Forborough, Mass. April 1, 1842	Grist mill, portable		Sandwich, N. H	
Grist mill, pressure or weighted. Grist mill, pressure or weighted. Grist mill, regulated. Grist mill, and sawing, construct grain mill, and saw mill combined. Grist mill, scouring and hulling. Grist mill, scouring and hulling. Grist mill, screw. Grist mill, self-stopper. Grist mill, self-stopper. Grist mill, sulf-stopper. Sid. & Portius Moore. Grist mill, sulf-stopper. Grist mill, vertical, cylindrical foot Samuel Fowkes. Grist mill, vertical, cylindrical foot Samuel Fowkes. Grist mill, sulf-stopper. Sid. & Portius Moore. Schall, N. Y. Brookfield, N. Y. Mar. 18, 1835 Brookfield, Ohio. Dec. 6, 1830 Tuscaloosa, Ala. July 7, 1835 Tuscaloosa, Ala. July 7, 1835 Tuscaloosa, Ala. July 7, 1835 Tuscaloosa, Ala. Grist mill, portable				
Grist mill, and sawing, construct grant mill, and saw mill combined. Grist mill, scouring and hulling. Grist mill, screw	Grist mill, pressure or weighted		·	•
Grist mill, and sawing, construct grant mill, and sawing, construct grant mill, and saw mill combined. Grist mill, scouring and hulling. Grist mill, screw		C. Ambler	New Berlin, N. Y	Dec. 6, 1830
Grist mill, and saw mill combined Grist mill, scouring and hulling. Grist mill, scouring and hulling. Grist mill, self-stopper. Grist mill, self-stopper. Grist mill, with small stones. Grist mill, and spiral water wheel Grist mill, and spiral water wheel Grist mill, vertical, cylindrical foot Grist mill, vertical, cylindrical foot Grist mill, working. Mac Reprise McCormick, jr. Frederick Smith. Grist mill, vertical, cylindrical foot Grist mill, working. James Rumsey. Michael Withers. Gudgeon, jnk, and vertical axis. John Andrews. John Shugert. Martin C. Forrist. Foxborough, Mass. Nov. 17, 1831 Nov. 17, 1832 Nov. 17, 1832 Nov. 17, 1832 Nov. 17, 1832 Aug. 1832 Aug. 1810 April 12, 1832 Aug. 1832 Aug. 1810 Catskill, N. Y. Sept. 13, 1824 Strasburg, Pa. Aug. 24, 1813 Dinwiddic co., Va. Aug. 11, 1817 Foxborough, Mass. Nov. 16, 1841 Elizabeth, Pa. April 1, 1842		Jo. Quimby	Wilmington, N. C	Feb. 3, 1812
Grist mill, scouring and hulling. Grist mill, screw	Grist mill, and rawing, construct'g	Geo. & F. R. Baker	Tuscaloosa, Ala	July 7, 1835
Grist mill, screw			Boston, Mass	Nov. 17, 1831
Grist mill, self-stopper	Grist mill, scouring and hulling		N	
Grist mill, self-stopper	Chief will server		New Troy, Pa	June 12, 1832
Grist mill, with small stones Frederick Smith Evans, N. Y Mar. 18, 1835 Grist mill, and spiral water wheel Grist mill, sugar loaf Side Portius Moore. Grist mill, vertical, cylindrical foot Grist mill, working James Rumsey Berkley co., Va. Aug. 26, 1791 Gudgeon mill Michael Withers Strasburg, Pa Aug. 24, 1813 Gudgeon, friction rollers for Martin C. Forrist Foxborough, Mass. Nov. 16, 1841 Gudgeon, self-acting box for John Shugert Elizabeth Pa. April 1, 1842				
Grist mill, and spiral water wheel Grist mill, sugar loaf		Frederick Smith	Franc N V	Man 10 1000
Grist mill, sugar loaf Sid. & Portius Moore. Mount Tirzah, N.C. June 15, 1827 Grist mill, vertical, cylindrical foot Grist mill, working James Rumsey Berkley co., Va Aug. 26, 1791 Gudgeon mill Michael Withers Strasburg, Pa Aug. 24, 1813 Gudgeon, friction rollers for Martin C. Forrist Foxborough, Mass. Nov. 16, 1841 Gudgeon, self-acting box for John Shugert Elizabeth Pa April 1, 1842	Grist mill, and sniral water wheel	Alexander Temple		
Grist mill, vertical, cylindrical foot Grist mill, working	Grist mill, sugar losf			
Gudgeon mill	Grist mill, vertical, cylindrical foot			
Gudgeon, ink, and vertical axis John Andrews Dinwiddie co., Va Aug. 24, 1813 Gudgeon, friction rollers for Martin C. Forrist Foxborough, Mass. Nov. 16, 1841 Gudgeon, self-acting box for John Shugert Elizabeth. Pa April 1, 1842	Grist mill, working.	James Rumsev		
Gudgeon, ink, and vertical axis John Andrews Dinwiddle co., Va Aug. 11, 1817 Gudgeon, friction rollers for Martin C. Forrist Foxborough, Mass. Nov. 16, 1841 Gudgeon, self-acting box for John Shugert Elizabeth. Pa April 1, 1842	Gudgeon mill	Michael Withers	Strasburg, Pa	
Gudgeon, friction rollers for Martin C. Forrist Foxborough, Mass. Nov. 16, 1841 Gudgeon, self-acting box for John Shugert Elizabeth, Pa April 1, 1842	Sudgeon, ink, and vertical axis	John Andrews	Dinwiddie co., Va	
Gudgeon, self-acting box for John Shugert Elizabeth, Pa April 1, 1842	Gudgeon, friction rollers for	Martin C. Forrist	Foxborough, Mass.	
erusgeon, or step of mill spindles. Jacob Staub Georgetown, D. C., May 4. 1841	Hudgeon, self-acting box for	John Shugert	Elizabeth, Pa	April 1, 1842
	estudgeon, or step of mill spindles.	Jacob Staub	Georgetown, D. C	May 4, 1841

INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WREN IMPURE.
Hommony, machine for making.	Wm. Y. Singleton	Springfield, Ill	April 25, 1846
Hommony mill	Nathan Read		May 8, 1820
Hommony mill	Robert Campbell		April 9, 1827
Hopper blower	Thomas S. Barnum	Sharon, Ct	Jan. 18, 1810
Hopper filler, for bolting flour	Abm. Hershe	Lancaster, Pa	Jan. 15, 1814
Horse mill	Ephraim Brown		April 10, 1810
Horse mill	William Cromwell	Accomack, Va	Dec. 14, 1816
Horse mill	William Sanford	New York	April 5, 1821
Horse mill	Admiral Warren	Saugerties, N. Y	April 15, 1826
Horse mill, lever	John Galbraith	Maury co., Tenn	Mar. 6, 1828
Horse mill, lever, by using weights			May 12, 1812
Horse power	Webb Hart	Accomack, Va	Jan. 22, 1817
Horse power	Benjamin Maltby	New York	April 11, 1825 Feb. 6, 1829
Horse power	Benj. S. Ridgway		Sept. 28, 1831
Horse power	George Page	Keene, N. H New York	Aug. 2, 1831
Horse power*	Thos. D. Burrall and	2.VH 2V44	
pandi viiii iii iii iii iii iii iii iii iii	Jehial F. Axtell	Geneva, N. Y	June 13, 1832
Horse power	Timothy Showerman.	Covington, N. Y	June 27, 1832
Horse power	Gilbert Griffin	Greece, N. Y	May 31, 1833
Horse power	S. S. Allen	Saratoga Sp'gs, N. Y	June 29, 1833
Horse power	P. C. Curtis and Linus		·
	Yale	Otsego, N. Y	Sept. 17, 1833
Horse power	Benj. D. Beecher	Cheshire, Ct	Dec. 23, 1833
Horse power	John & Luke Hale	Hollis, N. H	Dec. 24, 1833
Horse power	Jehial F. Axtell	Geneva, N. Y	Mar. 13, 1834
Horse power	J. Martineau, admin'r	T	36 81 1004
TT	of Joel Eastman	Elbridge, N. Y	May 31, 1834
Horse power	Eliakim Briggs	Ft. Covington, N.Y.	July 12, 1834
Horse power	Joseph B. Streeter Sewell Gleason	Middlesex, N. Y Westville, N. Y	Aug. 26, 1834 Sept. 18, 1834
Horse power	Sylvanus Leonard	Hampden, Me	Sept. 23, 1834
Horse power	William Emmons	New York	Dec. 24, 1834
Horse power	irby Jones	Natchez, Miss	Jan. 13, 1835
Horse power	William E. Arnold	Chatham, Ct	Mar. 13, 1835
Horse power	C. Custer and Daniel		,
	Ponepacker	Providence t'p, Pa	Mar. 30, 1835
Horse power	Thomas Mitchell	Newburg, N. Y	July 7, 1835
Horse power	Benjamin Wales	Hallowell, Me	Aug. 17, 1835
Horse power	Moses Davenport	Phillips, Me	Oct. 10, 1836
Horse power	Asa Trahern, Hy. He- berling, Wm. E. Lu-		i
	kens, & J. Heberling	Harrison co., Ohio	Oct. 28, 1835
Horse power	Daniel Fitzgerald	New York city	Oct. 19, 1836
Horse power	Samuel Newton	Dayton, Ohio	Jan. 20, 1836
Horse power	Dudley Marvin	New York city	Feb. 5, 1836
Horse power	Joseph Musten	Franklin co., Vt	Feb. 12, 1836
Horse power	Richard Skinner	Williamson, N. Y	Mar. 31, 1836
Horse power	Amos Adams	Augusta, Me	May 6, 1836
Horse power	Isaac Straub	Lewiston, Pa	May 14, 1836
Horse power	C. Coster and D. Pen-		35. 00 1006
TT	nypacker		
Horse power	Rufus Porter		June 11, 1836
Horse power	Willard Whitman		
Horse power	John Abbott Charles G. Gilbert	South Reading, Mass Leeds, Me	July 2, 1836
Horse power	Daniel Fitzgerald	New York city	Oct. 19, 1836
Horse power	Levi Rice	Attleborough, Pa	July 17, 1837
Horse power	Levi Rice and David		2, 2., 2001
ponderior	Congdon	West Chester, Pa	July 17, 1837
Horse power	Barnabas Langdon	Troy, N. Y	July 19, 1837
Horse power	Henry Smith	Bethel, Ohio	Oct. 6, 1837
Horse power	Benj. Hinkley	Fayette, Me	Nov. 25, 1837
Horse power	James Secor	New York, N. Y	April 26, 18 38

^{*} Disclaimer, Jan. 29, 1841.

INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	when issued.
Horse power	Miles C. Mix	Darby, N. Y	June 23, 183
Horse power	Orrin Straight	Lycoming co., Pa	Aug. 3, 183
Horse power	Jerub A. Fay	Baltimore, Md	Oct. 10, 183
Horse power	William E. Arnold	Rochester, N. Y	April 26, 183
Horse power	Samuel S. Allen	Miamisburg, Ohio	Jan. 10, 184
Hosse power	Geo. Strenge & Jacob		,
•	Rohrer	Lancaster, Pa	May 8, 184
Horse power	Enoch Piper	Camden, Me	June 10, 184
Horse power	Charles Hibbard		Sept. 14, 1846
Horse power	Edmund Warren		Jan. 5, 184
Horse power		Falmouth, Va	May 4, 184
Horse power*	Samuel H. Little		June 11, 184
Horse power			July 1, 184
Horse power	Moses Davenport		Sept. 4, 184
Horse power	John Haw		Mar. 15, 184
Horse power	Richard Montgomery.		April 10, 184
Horse power	John R. Remington		June 20, 184
			June 27, 184
Horse power	Daniel Cary Israel J. Richardson	New York N V	
		Hew Tork, N. 1	Feb. 10, 184
Horse power, and accelerating mo-		Owen mechanism S. C.	Now 19 1996
tion	Richard S. Schevenell.		Nov. 13, 1835
Horse power, or animal	James Cooper	Augusta co., Va	April 12, 1830
Horse power, or animal	William E. Arnold	Chatham, Ct	May 7, la3
Horse power, application of, to		337	A DC 104
machinery	Daniel Woodbury	Weathersfield, Vt	Aug. 26, 184
Horse power, driving machinery.	Luke S. Rand	Townshend, Vt	Mar. 4, 184
Horse power, driving machinery.	A. D. Childs		May 6, 184
Horse power, driving machinery.	Samuel B. Haines		Dec. 31, 184
Horse power, endless chain	Amos Parker		Aug. 30, 183
Horse power, endless chain	Webber Furbish		April 14, 183
Horse power, endless chain	O. Badger	Cooperstown N. Y.	Oct. 15, 1830
Horse power, endless chain	Jacob G. Hall		Sept. 21, 183
Horse power, endless chain			Sept. 22, 183
Horse power, endless chain	Henry G. Hall		Sept. 28, 183
Horse power, endless chain	Moses Davenport	Phillips, Me	July 10, 1839
Horse power, endless chain	Alonzo & William C.		
	_ Wheeler	Chatham, N. Y	July 18, 184
Horse power, endless chain	John Kelly	Lewistown, Pa 🙇	Mar. 4, 1849
Horse power, endless chain	Isaac R. Lawrence	Chatham, N. Y	Oct. 7, 1849
Horse power, endless chain	Albert W. Gray	Middletown, Vt	Oct. 26, 1849
Horse power, endless chain	Salmon Richard	East Poultney, Vt	Oct. 28, 184
Horse power, endless chain, band			
for.	ram A. Pitts	Livermore, Me	Aug. 15, 1834
Horse power, endless chain, and		•	
railway	Samuel Lane	Hallowell, Me	May 17, 183
Horse power, endless floor	Orestes Badger	Cooperstown, N. Y.	
Horse power, endless floor	Jeremiah M. Reed	Middlefield, N. Y	Jan. 30, 184
Horse power, endless floor on		Hollis, N. H	Jan. 16, 184
Horse power, endless leather	Jonathan G. Stanley &		10, 200
	James C. Howard	Winthrope, Me	Jan. 16, 183
Horse power, gearing for	Smith Gardnier	Auburn, N. Y	
Horse power, inclined plane	Wm. G. Johnston		Oct. 4, 183
Herse power, locomotive	John R. Sleeper	Philadelphia, Pa	Oct. 30 183
Horsr power, portable, or animal		Philadelphia, Pa	Dec 14 193
Horse power, portable			Tuna 19 199
Horse power, portable	James H. Corey		
Horse power, portable			Feb. 27, 183
Horse power, portable	David Flagg, jr Charles M. Keller	New York	Dec. 28, 183
			June 3, 183
Horse power, portable	William Burk	Whitemarsh towns'p	
Horse nower nowells	Smith Cond	Pasharan N. V	June 25, 183
Horse power, portable	Smith Gardner	Rochester, N. Y	Nov. 25, 183
Horse power, portable	Samuel S. Allen		
Horse power, portable	John Brandon	Williamsport, Pa	April 8, 183
Horse power portable	•	TAGM TOLK	Aug. 25, 184
* Reissued July, 1, 1841.	† Antedated Dec. 9, 1840.	‡ Disclaimer, Nov	r. 4, 18 3 7.



INVENTIONS OR DISCOVERIES.	patentees.	RESIDENCE.	WHEN ISSUED.
Horse power, portable	Elihu H. Jaques	Springfield, Vt	May 16, 1845
Horse power, portable	Jesse Fitzgerald	New York, N. Y	June 16, 1846
Horse power, portable, frame work		110 # 2011, 211 2111	June 10, 1010
of.	P. Ross	Lewisburg, Pa	June 30, 1837
Horse power, tread wheel for	Alanson Coats	Truxton, N. Y	Jan. 23, 1833
Horse power, portable, master			,,
wheel of	John A. Taplin	Hammond, N. Y	Dec. 30, 1841
Horse powers, power and motion	•	•	•
of	James Leffel	Springfield, Ohio	Aug. 20, 1845
Horse power, water or steam	Robert Mitchell	Cynthiana, Ky	Oct. 10, 1829
Horse wheel, inclined	James B. Robinson	Cincinnati, Ohio	Oct. 14, 1816
Horse wheel, inclined, and water.	Lee Wheeler and T.		
•• • • • • •	Powell	Coxackie, N. Y	Dec. 6, 1822
Horse wheel, inclined	John Bradford	Lexington, Ky	May 14, 1824
Horse wheel, inclined	Elias Holliday	Schoharie, N. Y	May 6, 1826
Horse wheel, inclined	Moses Isaacs and John		
Transmitted in Vivi	Wilbank	Philadelphia, Pa	Oct. 14, 1817
Horse wheel, inclined	N. H. Shaw	Charlotte Hall, Md.	Oct. 9, 1824
Horse wheel, vertical	John A. Morton	Baltimore, Md	July 21, 1815
Horse wheel, vertical	John M. Tilford	Rutherford co., Ten.	Aug. 7, 1820
Horse wheel, vertical	J. Keller & S. J. Burt.		April 23, 1824
Journals, preventing from heating	_ ~ ~ ~	Columbus, Ga	May 25, 1844
Meal, cooling, and conveying up.	F. G. Saltonstall	North Carolina	Aug. 21, 1801
Machinery, governor for regulating	77 P	D . 35	4 . 02 1644
the movements of mill wheels	Henry Burt	Boston, Mass	Aug. 31, 1844
Mill	John Harman, jr	New York	Mar. 30, 1836
Mill hork swin for swinding	J. F. Ostrander	New York, N. Y	April 25, 1846
Mill, bark, grain, &c., grinding	Joseph Birely	Frederick, Md	July 11, 1842
Mill bush	Jacob Aulabaugh	East Berlin, Pa	July 18, 1840
Mill bush	John Heck	Boonsboro', Md	Mar. 26, 1844
Mill, tide	Robert W. Wade John B. Ross	Summit Point, Va	May 25, 1844
Mill bushing and keeping the same	Jun D. Ross	New York	Nov. 9, 1844
close to the spindles	Elisha W. Welsh	Dowie Vo	Jan. 28, 1840
Mill bush, self-regulating and self-	Initial VV. VV CISII	Paris, Va	Jan. 20, 1030
oiling	Samuel Moore	Chambersburg, Pa .	April 8, 1840
Mills for cracking and grinding	William Beal, jr., and		12pr.: 0, 1010
	B. S. Hale	Lowell, Mass	Dec. 17, 1846
Mill, crushing hard substances	James Rowe	Athens, Ala	April 24, 1840
Mill, cylinder for granulating corn		12000000, 1200 11111	
powder, bark	Increase Wilson	New London, Ct	July 23, 1841
Mill feed, machine for dusting after			,,
bolting	Edward Bradfield	Rochester, N. Y	Sept. 15, 1846
Mill, grinding all kinds of grain	Justin Ware	Farmington, Del	July 20, 1842
Mill for hulling cotton seed	Jabez Smith	Petersburg, Va	Mar. 15, 1845
Mill machinery	Lewis Valcourt	Petersburg, Va Louisville, Ky	June 25, 1805
Mill machinery	Michael B. Poitiaux	Richmond, Va	May 20, 1830
Mill machinery	Augustus Sawyer	Hopewell, N. Y	Oct. 1, 1830
Mill, metallic	Joseph C. Gentry	Dayton, Ohio	Mar. 18, 1836
Mill, metallicfile, furrowing, dress-		1	·
ing	Samuel G. Reynolds .	Providence, R. I	Mar. 18, 1835
Mill, paint	Joseph W. Webb	Mount Merris, N.Y.	Feb. 15, 18 39
Mill, portable	Jesse Fitzgerald	New Yerk, N. Y	Sept. 12, 1846
Mill spindle, oiling and protecting			
from dirt	Jesse Hubbard	Watertown, Ct	April 8, 1840
Mill, spindles for	Joseph C. Gentry	Dayton, Ohio	Sept. 25, 1839
manu spingie and trundle head of	Elbridge G. Potter	Lebanon, Ohio	July 18, 1840
Mill stones		l amneter Pe	A 1307 15 15 1
WALL BUILDING A A A A A A A A A A A A A A A A A A A	William Willor		
WALL BUILDING A A A A A A A A A A A A A A A A A A A	William Willor	Jefferson co., Miss	April 3, 1829
MAIN BUILDING CO. C.	William Willor	Jefferson co., Miss Crawford co., Pa	April 3, 1829 July 27, 1831
MAIII BUILDES A A A A A A A A A A A A A A A A A A A	William Willor	Jefferson co., Miss Crawford co., Pa Chambersburg, Pa	April 3, 1829 July 27, 1831 Sept. 28, 1831
MAIII BUILDES A A A A A A A A A A A A A A A A A A A	William Willor	Jefferson co., Miss Crawford co., Pa Chambersburg, Pa Vanderburgh co., Ind	April 3, 1829 July 27, 1831 Sept. 28, 1831 Jan. 5, 1832
Mill switch	David Philips John Clyde Benjamin Myers David Stern James Prestow	Jefferson co., Miss Crawford co., Pa Chambersburg, Pa Vanderburgh co., Ind Auburn, N. Y	April 3, 1829 July 27, 1831 Sept. 28, 1831 Jan. 5, 1832 Feb. 12, 1833

†Additional improvement Feb. 18, 1840.

Mill stones, dressing Lonard Norcross Livermore, Me May 24, 1811 May 6, 1822 Mill stones, dressing John Keefer Williamsport, Pa Jan. 13, 1832 Mill stones, dressing of portable Mill stones, dressing of mill stones, dressing May 11, 1833 Maran Jacobs Nathan Jacobs Newark, Ohio Mar. 11, 1833 Mill stones, dressing Mill stones, dressing Mill stones, dressing Mill stones, dressing with ventilar dressing Mill stones, facing Mill stones, facing Mill stones, facing Mill stones, facing Mill stones, hanging and using Mill stones, machiner for raising Mill stones, machiner for raising Mill stones, picking Mill stones, picking Mill stones, picking Mill stones, picking Mill stones, prevent from heating Mill wheel	INVENTIONS OR DISCOVERIES.	Patentees.	RESIDENCE.	WHEN 188UED.
will stones, bear. Willist stones, bush for the willist of the state of the willist stones, casting faces of thill stones, coaling faces of thill stones, cooling. Mill stones, dressing. Mill stones, dressing. Mill stones, dressing, and cooling flour consultations, and the willist stones, dressing. Mill stones, dressing of portable. Mill stones, dressing of portable. Mill stones, dressing of portable. Mill stones, dressing mill stones, machinery for raising and using mill stones, machinery for raising mill stones, picking. Mill stones, prevent from heating mill stones,	Mill stones	Ioseph H Rurrows	Cincinnati Ohio	April 93 1946
will stones, bear. Willist stones, bush for the willist of the state of the willist stones, casting faces of thill stones, coaling faces of thill stones, cooling. Mill stones, dressing. Mill stones, dressing. Mill stones, dressing, and cooling flour consultations, and the willist stones, dressing. Mill stones, dressing of portable. Mill stones, dressing of portable. Mill stones, dressing of portable. Mill stones, dressing mill stones, machinery for raising and using mill stones, machinery for raising mill stones, picking. Mill stones, prevent from heating mill stones,	Mill stones annular	John Morely	New York	Nov 28 1836
will stones, bear. Willist stones, bush for the willist of the state of the willist stones, casting faces of thill stones, coaling faces of thill stones, cooling. Mill stones, dressing. Mill stones, dressing. Mill stones, dressing, and cooling flour consultations, and the willist stones, dressing. Mill stones, dressing of portable. Mill stones, dressing of portable. Mill stones, dressing of portable. Mill stones, dressing mill stones, machinery for raising and using mill stones, machinery for raising mill stones, picking. Mill stones, prevent from heating mill stones,		Mark I. Chase	Raltimore Md	Tune 13 183
Mill stones, dressing		William Rennet	Chesterville Me	Oct 95 1839
Mill stones, dressing		Oliver Evens	Pennsylvania	May 98 1794
Mill stones, dressing	Mill stones hugh	Nother Taylor	Hebana N V	Tuly 20, 1130
Mill stones, dressing		Grafton Manter	Londonderry N H	Dec 8 1818
Mill stones, cooling. Mill stones, dressing. Mill stones, facing. Mill stones, facing. Mill stones, facing. Mill stones, machinery for raising. Mill stones, machinery for raising. Mill stones, prevent from heating. Mill wheel. Mill works. Mill stones, dressing. Mill wheel. Mill		I Sawyer and E Clark	Royalston Mass	Mag 18 1896
Mill stones, dressing Chas. Wolverton and mill stones, dressing Leonard Norcross Livermore, Mc. May 24, 181 Benj. Ridgway, jr. Leonard Norcross Williamsport, Pa. Jan. 13, 183 Mall stones, dressing Jacob B. Mirick Lyons, N. Y. Sept. 25, 183 Mall stones, dressing David P. Napier. Lyons, N. Y. Sept. 18, 183 Mall stones, dressing David P. Napier. Lyons, N. Y. Sept. 18, 183 Mall stones, dressing oportable. Nathan Jacobs Nathan Jacobs Stokes county, N. C. Oct. 2, 183 Mill stones, dressing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, dressing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, dressing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county, N. C. Oct. 2, 183 Mill stones, facing Charles Vest Stokes county,		Auetin Teylor	Littleton N H	Mar 31 1834
Mill stones, dressing, and cooling flour f	Mill stones, dressing	Chas. Wolverton and		ľ
Mill stones, dressing, and cooling flour f	Mill stones dressing	Leonard Norceous	Livermore Me	May 6 1995
Mill stones, dressing, and cooling flour f		John Keefer	Williamsport Pa	Ton 12 1920
flour Jacob B. Mirick Manlius, N. Y. Agu. 10, 183 and W. Elmore Lyons, N. Y. Sept. 25, 183. Mill stones, dressing. David P. Napier. Newark, Ohio Mar. 11, 183 Mill stones, dressing and laying the runners of Shadrach Trumbull Stones, dressing with ventilations of or cooling the flour, &c. Mill stones, dressing with ventilations for cooling the flour, &c. Mill stones, facing, furrowing and dressing facing, furrowing and dressing facing, furrowing and dressing Mill stones, facing, furrowing and dressing Mill stones, facing, furrowing and dressing Mill stones, machinery for raising Mill stones, machinery for raising Mill stones, picking David P. Napier. Mill stones, picking David P. Napier. Mill stones, processing with ventilations of the four of the foliation of th	Mill stones, dressing, and cooling	John Recici	w mamsport, ratt.	Jun. 10, 1002
Mill stones, dressing bavid P. Napier. Lyons, N. Y. Sept. 25, 183. Mill stones, dressing of portable. Nathan Jacobs Newark, Ohio Mar. 11, 183 Mill stones, dressing, and laying the runners of Shadrach Trumbull Stones, dressing Newark, Ohio Mar. 11, 183 Mill stones, dressing New the tentilators for cooling the flour, &c. Pendleton Cheek Flat Rock, Ga. Aug. 2, 183 Mill stones, facing, furrowing and dressing Mill stones, facing, furrowing and dressing Mill stones, machine for tramming Charles Actilise and Ed. Estabrook Solomon Hodge and Jonathan Dorr Samuel Etheridge. Nove New Feb. 21, 183 Mill stones, prevent from heating. Mill stones, prevent from heating Mill, sugar Mill, sugar Actility of the Mill stones, prevent from heating Mill, sugar prinding New Perris Freleigh New York, N. Y. Aug. 8, 184 Mill, sugar grinding New Mill, wing sugar grinding, hulling New Actility of the Mill wheel Diphers of the Mill wheel New Mill wheel Mill wheel New Mill wheel New Mill wheel New Mill whole	four	Iscob R Mirick	Manline N V	Aug 10 1833
Mill stones, dressing with ventilators for cooling the flour, &c. Mill stones, dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing and using. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for carbide and provided with flour	Mill stones dressing	Jesse W Elmore	Lyone N V	Sept 95 193
Mill stones, dressing with ventilators for cooling the flour, &c. Mill stones, dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing and using. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for carbide and provided with flour	Mill stones dressing	David P Nanier	Casey county Ky	Sent 19 1934
Mill stones, dressing with ventilators for cooling the flour, &c. Mill stones, dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing and using. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for cooling the flour, &c. Mill stones, facing, furrowing and dressing with ventilators for carbide and provided with flour	Mill stones dressing of nortable	Nathan Tarohe	Newark Ohio	Mar 11 183
Mill stones, dressing with ventilators for cooling the flour, &c Mill stones, facing	Mili stones, dressing, and laying		i e	ı
Mill stones, dressing with ventilators for cooling the flour, &c Mill stones, facing		Unaries Vest	Stokes county, N. C.	Oct. 2, 1838
Mill stones, dressing with ventilators for cooling the flour, &c Mill stones, facing		Shadrach Trumbull	Sumeia, Ct	Aug. 2, 183
Mill stones, facing, furrowing and dressing	Mill stones, dressing with ventila-	Robert M. Smith	Rutherford co., 1 enn	reb. 8, 1840
Mill stones, hanging and using. Mill stones, machinery for raising Mill stones, machinery for raising Mill stones, machinery for raising Mill stones, machine for tramming Charles Carlisle and Ed. Estabrook. Mill stones, picking	tors for cooling the flour, &c	Pendleton Cheek	Flat Rock, Ga	Aug. 21, 1841
dressing dressing and using. Mill stones, hanging and using. Mill stones, machinery for raising dill stones, machine for tramming dill stones, picking. Mill stones, porous composition for Experiment of the phen Blanchard of the phen Blanchard. Mill, sugar. Mill, sugar produing. Mill, sugar, breaking and crumbling lumps of. Mill, vertical lathe. Mill wheel. Mil	Mill stones, facing	Robert C. Stevens	Hackett's town, N.J.	Feb. 18, 1834
Mill stones, machinery for raising Mill stones, machinery for raising Mill stones, machine for tramming Mill stones, picking. Mar. 2, 183. Mosw York, N. Y. Mar. 26, 184. May 7 Skept. 10, 184. May 7 Skept. 10, 184. May 18, 184. Mill wheel. Mil		Zebulon Cheesebrough	Alden, N. Y	Dec. 10, 1836
Mill stones, picking	Mill stones, hanging and using	James McDuffee	Bradford, Vt	Feb. 21, 1833
Mill stones, picking	Mill stones, machinery for raising	Thomas Reynolds	West Fallowfield, Pa	Nov. 8, 1814
Mill stones, picking	Mill stones, machine for tramming	Charles Carlisle and	ł .	ĺ
Jonathan Dorr Washington, N. Y. Oct. 23, 179; Samuel Etheridge Tecumseh, Mich Mar. 2, 183 Mill stones, prevent from heating Mill stones, prevent from heating Mill, sugar Mill, sugar grinding Nathan Sargent Cambridgeport, Mas. Sept. 10, 184 Mill, sugar, breaking and crumbling lumps of Nathan Sargent Cambridgeport, Mas. Sept. 10, 184 Mill, vertical lathe Philadelphia, Pa. Feb. 3, 183 Mill wheel James Bogardus New York July 29, 184 Mill wheel James Cowen Massachusetts Dec. 14, 180 Mill wheel John Staples, jr. New York Feb. 17, 180 Mill wheel John Turk Columbus, Pa July 1, 183 Mill wheel, double power Luther Copeley New Lebanon, N.Y. May 15, 183 Mill whorks Sam Mans and J. Black Jesse Reeder Lebanon, Ohio Oct. 31, 182 Motion, communicating Samuel Kilburn Sterling, Mass April 16, 183 Motion, constant, from irregular Motion, double acting, reciprocatings**	Mill stones, picking	Solomon Hodge and		
Mill stones, porous composition for phen Blanchard phen Blanchard phen Blanchard Stephen Blanchard Stephen Blanchard Stephen Blanchard Stephen Blanchard Phen Blanchard Stephen Blanchard Stew York NY Aug. 8, 1844 Stew York NY Aug. 8, 1849 Stept. 10, 1846 Stephen Stew York Sept. 10, 1846 S		Jonathan Dorr	Washington, N. Y.	Oct. 23, 1792
Mill, sugar, breaking and crumbling lumps of	Mill stones, picks			
Mill, sugar, breaking and crumbling lumps of		_phen Blanchard	Cincinnati, Ohio	Sept. 10, 1846
Mill, sugar, breaking and crumbling lumps of	Mill stones, prevent from heating.	Ferris Freleigh	Stowe, Ohio	Mar. 26, 1845
Mill, sugar, breaking and crumbling lumps of	Mill, sugar	Altred Sullman	New York, N. Y	Aug. 8, 1846
Mill, universal, for grinding, hulling			Cambridgeport, Mas	Sept. 10, 1840
Mill, universal, for grinding, hulling	Mill, sugar, breaking and crumb-	l I		
Mill wheel	Mill, universal, for grinding, hull-	wm. Bent		
Mill wheel	Mill, vertical lathe	Elijah Skinner & John		
Mill wheel	56.11	webster		
Mill wheel		James Cowen	Massachusetts	Dec. 14, 1802
Mill wheel, dresser	Mill wheel	John Staples, jr	New York	Feb. 17, 1804
Mill wheel, dresser	Mill wheel	Ephraim Rew	Canandaigua, N. Y.	Feb. 22, 1809
Mill, wing gudgeon for David Philips George Parker George Cown, Pa Dec. 28, 1849 Mill works Sam. Mans and J. Black Pennsylvania Feb. 18, 1809 Milling Jesse Reeder Lebanon, Ohio Oct. 31, 1829 Motion, communicating William Simpson William Simpson William Simpson William Simpson Sterling, Mass April 16, 1839 Motion, constant, from irregular Jos. Kello New York April 1, 1819 Motion, double acting, reciprocating Christian Willson Bedford, N.Y Oct. 5, 1839	Mill wheel	Rufus Lathrop	W. Springheld, Mas	Nov. 12, 1819
Mill, wing gudgeon for David Philips George Parker George Cown, Pa Dec. 28, 1849 Mill works Sam. Mans and J. Black Pennsylvania Feb. 18, 1809 Milling Jesse Reeder Lebanon, Ohio Oct. 31, 1829 Motion, communicating William Simpson William Simpson William Simpson William Simpson Sterling, Mass April 16, 1839 Motion, constant, from irregular Jos. Kello New York April 1, 1819 Motion, double acting, reciprocating Christian Willson Bedford, N.Y Oct. 5, 1839		John Turk	Columbus, Pa	July 1, 1836
Mill, wing gudgeon for David Philips George Parker George Cown, Pa Dec. 28, 1849 Mill works Sam. Mans and J. Black Pennsylvania Feb. 18, 1809 Milling Jesse Reeder Lebanon, Ohio Oct. 31, 1829 Motion, communicating William Simpson William Simpson William Simpson William Simpson Sterling, Mass April 16, 1839 Motion, constant, from irregular Jos. Kello New York April 1, 1819 Motion, double acting, reciprocating Christian Willson Bedford, N.Y Oct. 5, 1839	Mill wheel, double power	Luther Copeley	New Lebanon, N.Y.	May 15, 1834
Milling	Mills, wind	Georga Parker	Corinna, Maine	Sept. 11, 1844
Milling	Mill, wing gudgeon for	David Philips	Georgetown, Pa	Dec. 28, 1844
Milling. Jesse Reeder. Lebanon, Ohio Oct. 31, 182: Motion, alternate, lateral. Nathan Moody Hallowell, Mass. Feb. 19, 181: Motion, communicating. William Simpson Wilkes county, Ga. Feb. 19, 181: Motion, constant, from irregular Jos. Kello Sterling, Mass. April 16, 183: Motion, changing. New York April 1, 181: Otis Pettee. Newton, Mass. Mar. 15, 183: Christian Willson Bedford, N.Y. Oct. 5, 183:	Mili works	Sam. Mans and J. Black	Pennsylvania	l Feb. 18. 1809
Motion, alternate, lateral	Milling	Jesse Reeder	Lebanon, Ohio	Oct. 31, 1829
Motion, communicating Samuel Kilburn Sterling, Mass April 16, 183 Motion, constant, from irregular Jos. Kello New York April 1, 181: Otis Pettee Newton, Mass Mar. 15, 182: Christian Willson Bedford, N.Y Oct. 5, 183:	Motion, alternate, lateral		Hallowell, Mass	Feb. 19, 1819
Motion, communicating Samuel Kilburn Sterling, Mass April 16, 183 Motion, constant, from irregular Jos. Kello New York April 1, 181 Motion, changing Otis Pettee Newton, Mass Mar. 15, 182 Motion, double acting, reciprocatings Christian Willson Bedford, N.Y Oct. 5, 183	Motion, communicating		Wilkes county, Ga.	
Motion, constant, from irregular. Jos. Kello	Motion, communicating		Sterling, Mass	April 16, 183
Motion, double acting, reciprocatings	Motion, constant, from irregular		New York	April 1, 181
ing Christian Willson Bedford, N.Y. Oct. 5, 183	Motion, changing	Otis Pettee	Newton, Mass	Mar. 15, 182
	ing*	Christian Willson	Bedford, N.Y	Oct. 5, 183
	Motion, extending			
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^{*} Antedated April 5, 1839.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Motion, fly-wheel or slide, to mul-			
tiply	Charles Johnson	Amity, Illinois	Oct. 11, 1841
Motion in machinery, to be used		1	•
as a substitute for cog-gearing,			
mode of increasing, reducing,			
and communicating	Frederick S. Barnard.	New York, N. Y.	Sept. 10, 1839
Motion, reciprocating	Benjamin Babbet	Bangor, Maine	Oct. 11, 1836
Motion, reciprocating	Charles A. Watson	Deleich N C	Aug. 1, 1030
Motion, rectilinear, into rotary	John Y. Savage Archibald Smith	Rhinghack N V	Aug. 3, 1023
Motion, rectilinear, into rotary	A W k'ngter and I	Greenshuer & Hemn-	
	Hugus Peter Cooper William Sullivan Samuel Hopkins Caleb Greene	ford. Pa	April 26, 1819
Motion, rotary, from alternate	Peter Cooper	New York	April 6, 1820
Motion, rotary, double, horizontal	William Sullivan	Jefferson county, Ind.	June 5, 1824
Mustard, preparation of flour	Samuel Hopkins	Rahway, N. J	Aug. 19, 1813
Mustard, preparation of flour	Samuel Hopkins	Philadelphia, Pa	May 31, 1817
Paint mill	Caleb Greene	Massachusetts	July 23, 1801
Paint mill	Jacob Cist John J. Wells	Pennsylvania	Dec. 3, 1803
Paint mill	Dotor Breezied	Green county N V	June 13, 1809
Paint mill	Flijah Skinner	Sandwich N'H	Dec 98 1818
Paint mill, and drug	Isaac Eddy	Boston Mass	Mar. 19, 1824
Paint mill, horizontal, cast iron	Origen Packard	Wilmington, Vt	Feb. 12, 1827
Paint mill	Allen Holcomb	Butternuts, N. Y	Mar. 14, 1827
Paint mill trunked mouth	Samuel Cook	Mendon Mass	Mar. 3 1829
Paint mill, and grain*	James Bogardus	New York	Jan. 18, 1832
Paint mill, indigo	Oliver C. Harris	Waterville, N. Y	Mar. 15, 1832
Paint mill, and grains Paint mill, indigo. Paint mill, dye stuffs. Pendulum machine. Pendulum to mills.	William G. Johnston.	Philadelphia, Pa	May 3, 1832
Pendulum machine	Jos. Letever	Providence, R. I	June 13, 1810
Pendulum to mus	Salaman Thanan	Prointed Mass	Mar. 1, 1803
Pendulum mill	William Grandin	Lieter N V	Oct. 9, 1811 Jan. 6, 1813
Pendulum power	William W. McIntosh	1100001, 14. 1	Jul. 0, 1010
z diamini po il dividi di di	and W. Barnheart.	Aurelius, Ohio	April 13, 1825
Pendulum power	Jedediah Tallman	Albany, N. Y	Mar. 31, 1808
Pendulum power, and lever		Poughkeepsie, N. Y.	Mar. 25, 1826
Pendulum motion, for machinery.	Justin Jacob	Montreal, Canada	Dec. 29, 1826
Pendulum, regulator for water			
wheels		Montville, Conn	Feb. 11, 1833
Pendulum power	Abraham wade	Policieron Md	Mar. 25, 1033
Plaster mill		Paltimore, Md	Dec. 14, 1004
Plaster mill	A Fettrow	York Pa	May 28 1818
Platform, flexible, for moving	11. 1 0000	1011, 14	101dy 20, 101d
wheels		Charleston, S. C	Nov. 22, 1809
Potatoes, grinding	Jesse King	Florida, N. Y	Mar. 1, 1814
Power, air, water, and animal	Į.		
_ combined	Thomas P. Codman.	Boston, Mass	April 20, 1833
Power, augmenting, engine	Andrew Ochler	Eastonville, Va	Mar. 30, 1835
Power, compound, explosive,—Sec	Class A.	1	Ī
Power, concentric	Henry Buel	Randolph, Tenn	May 3, 1833
Power, endiess chain propeller	Lewis Unevrier	N Vermouth Mains	Dec 97 189
Power caining	Charles Radhaiffer	Philadelphia Pa	Tuly 11 1890
Power, graduating the velocities of	Onuree recuirement	z maucipina, z a	July 11, 1020
moving bodies		Albany, N. Y	Jan. 5, 1841
Power, helping	William Loomis		April 29, 1833
Power, machine		Washington t'nsp,O.	Dec. 31, 1829
Power, mode of applying	Lorin Butts	Canterbury, Conn	
Power, alternate motion for	Benjamin Elliot	Danby, N. Y	
Power, alternate motion, by con-	4		1
traction and expansion of metal	Hazard Knowles	Hartford, Conn	Sept. 8, 1836
Power, maintaining, to drive ma		Williams N W	Man 00 1041
chinery	ocpn. r. w. Douglas	vy miamson, N. Y.	; may 22, 1841

^{*} Extended fourteen years from January 18, 1846.

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INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHEN 1866ED.
Power manual made of driving			
Power, manual, mode of driving machinery	Ammi West	Greene, Maine	Aug. 16, 1839
Power, and motion, by weights.— See Class VI, page 208	Peter Overt	New York	Dec. 18, 1813
Power, propelling, by cams and		200.000	•
inclined planes Power, propelling machinery	Philo C. Curtis William Stanton	Utica, N. Y Center township, Pa.	May 29, 1835 April 23, 1827
Power, propelling machinery	T. D. Newsom and James C. Schule	Nashville, Tenn	
Power, propelling machinery	T. D. Newsom	Nashville, Tenn	
Power, propelling machinery	A. Parkhurst and S. Bacon	Scriba, N. Y	April 11, 1831
Power, propelling machinery	David Russell	Tuscumbia, Ala	Oct. 27, 1835
Power, propelling machinery, call- ed lever and dead weights	Luke M. Edwards	Frenton, Tenn	Mar. 2, 1835
Power, propelling machinery by weights	Cam Broyles:	Tellico, Tenn	Oct. 19, 1827
Power, propelling machinery, or driving stones of flour and grist		141100, 1511111111	10, 10,
mills	Jeremiah Case	Sodus, N. Y	June 13, 1831
Power, propelling mills	Joseph G. Aldebert	Opelousas, La	
Power, propelling mills by lever Power, propelling mills by balance		Trenton, Tenn	April 21, 1034
lever. Power, propelling mills by rolling	Upham	Massillon, Ohio	May 16, 1833
Power, propelling mills by rolling and balance wheel Power, propelling mills, support-	Joel Estes	Brownsville, Tenn	Aug. 15, 1831
ing chains	Billy Todd	Marietta, Ohio	Aug. 4, 1831
Power, propelling mills by weights	Obed R. Marston	Java, N. Y	Jan. 9, 1835
Power, safety engine, for machinery Power, self-motive	Louis Marchand	Baltimore, Md	June 14, 1834 Mar. 31, 1836
Power, by weights	Elisha Turner	North Pownel, Me	June 12, 1835
Pulleys, for cogs	William Shotwell	New Terger	June 24, 1800
Pulley, coupling and uncoupling, with their sharts.	Peter Yates	Milwaukie, W. T	April 25, 1843
Racket and wheel	Marcus B. Parmelee	Newtown, Conn	Sept. 21, 1808
Regulating speed, wheel for grist	i	ł	l
mills	S. H. Freeman	Cecilton, Md	May 17, 1836
Rice mill, steam	John L. Norton	Charleston, S. C	Dec. 16, 1823 Aug. 3, 1827
Screw mill	Oliver Evans	Philadelphia, Pa	Feb. 14, 1804
Shafts, vertical, and spindles, pre- venting friction and adhesion in	1	• •	-
the steps or gudgeons of	Stephen Parsons	Edgecombe, Maine	June 7, 1839
Sifter, meal	Daniel Homan	Brookhaven, N. Y	Mar. 8, 1813
Sifter, grain, flour	John Nichols	Boston, Mass	
Smut, machine for cleaning from	J. F. Howlet and F.	Newcastle, Del	June 22, 1023
Wheat.	M. Walker	Greensborough, N.C.	May 9, 1846
Smut machine	H. D. Revnolds	Mill Hall. Pa	July 28, 1846
Spindle and bush, for grist mill	Jesse Barber	Phelps, N. Y	Feb. 28, 1834
Spindle and bush, ring and ball.	Samuel Merchant	Onio county, va	July 22, 1834
for mills	Warren P. Wing	Greenwich, Mass	Feb. 20, 1835
Spindle and bush, self-tightening. Spindle, cast or wrought iron driver	lames Region	Lampeter t'nship, Pa. Millford, Pa	Oct. 19, 1838 April 23, 1831
Spindle, cast iron, for mills	Wanton Rice	Athens, Pa	Oct. 1, 1823
Spindle, cast iron, for mills Spindle, oil bush	Jesse Hinman	Clinton t'aship, Pa.	Mar. 2, 1835
Spindle, reducing friction	Frederick Fredley	Logan township, Pa.	Mar. 10, 1834
Tread wheel	Cornelius Watson	Addison township O	July 28, 1817 Dec. 22, 1827
Tread wheel, railway	Benjamin Sutton	Romulus, N. Y	Jan. 27, 1830

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Wedge, circular	Silas Underwood	Hardwick, Vt	July 22, 1831
Wheel, band, mode of hanging	Isaac Straub	Lewistown, Pa	July 11, 1837
Wheel, chain	Henry Beidleman	Washington co., Va.	Feb. 8, 1819
Wheel, chain	J. Hines and E. D.		-
•	McCord	Sandy Hill, N. Y	Nov. 20, 1829
Wheel, chain, right and left	Ralph Bulkley	New York	Oct. 8, 1821
Wheel, elliptical cog	Edmund C. Danly	Fredonia, Ind	May 12, 1820
Wheel, or inclined circular plane.			
Wheel, inclined			
Wheel, mode of balancing			
Wheel, and rest			
Wheel, rolling on an inclined shaft	Stephen Merrick	Madison co., N. Y.	Nov. 30, 1808
Wheel, running gear for mills	Brittain Huckabby	Huntsville, Ala	Aug. 16, 1824
Wheel, screw gear	Charles Wortham	Warren co., N. C.,	April 24, 1826
Wheel, screw gear for bevel	Charles Neer	Waterford, N. Y	Mar. 9, 1827
Wheel, spiral, perpendicular	Zach. Hiatt	Indiana	Aug. 20, 1819
Wheel, trailing	John Read	Lyme Conn	Mar 6 1818
Wheel within cylinders	James Sharpless	New York	Sent. 15 1801
Wheel, within cylinders	Nethan T Davis	Wilmington Vt	Ton 9 1834
Wind mill.—See Wind mill, Class	11	windington, vt	Juli. 3, 1004
"Wry fly," for mill machinery	Benjamin Tyler	Claremont, N. H	Mar. 19, 1834

CLASS No. XIV.

LUMBER,

Including Machines and Tools for Preparing and Manufacturing; such as Sawing, Planing, Mortising, Shingle and Stave, Carpenters and Coopers' implements.

LIST OF PATENTS.

CLASS XIV.—LUMBER, including Machines and Tools for Preparing and Manufacturing; such as Sawing, Planing, Mortising, Shingle and Stave, Carpenters, and Coopers' implements.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Auger	Christopher Hoxie	Hudson, N. Y	July 12, 1804
Auger	William Hall	Champlain, N. Y	Feb. 7, 1807
Auger	Martin Howe	New York	April 2, 1814
Auger	Joseph Brownell	Otsego, N. Y	May 16, 1815
Auger		Philadelphia, Pa	Aug. 17, 1826
Auger		Portsmouth, Va	June 12, 1835
Auger	William Jones	Portsmouth, Va	June 15, 1835
Auger		Derby, Ct	July 20, 1843
Auger, or bit		Saybrook, Ct	Feb. 11, 1835
Auger, for boring square holes	1 = 4 - 4	Otsego co., N. Y	Feb. 14, 1818
Auger, for boring and withdrawing		Tuscarora, N. Y	June 1, 1830
Auger, for boring large holes			April 8, 1835
Auger, double podded centre screw Auger, double twisted*		Saybrook, Ct	July 31, 1809
Auger, double twisted	E. Hommedieu, ass'ee		July 24, 1838
Anger gange	of R. Watrous Abel Stowell	Chester, Ct	Feb. 14, 1803
Auger, gauge	Orville Percival	Massachusetts East Haddam, Ct	Oct. 14, 1835
Auger, gimlets	William N. Clark		Jan. 31, 1845
Auger, handles for		Chester, Ct	Mar. 12, 1845
Auger, hollow	Abel Conant	Warwarsing, N. Y. Pepperville, Mass	June 11, 1829
Auger, mining		Boston, Mass	May 18, 1811
Auger, post		Hudson, N. Y	July 26, 1824
Auger, pump, and spur bits		Derby Ct	Nov. 11, 1834
Auger, serpentine		Derby, Ct York, Pa	Sept. 10, 1829
Auger, serpentine screw	George Shetter	York, Pa	Mar. 21, 1931
Auger, set for wheel hubs		Windham, Ct	Nov. 20, 1826
Auger, screw	Oliver Stetson & Wm.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
,	Sebree	Georgetown, Ky	Dec. 11, 1810
Auger, screw		Derby, Ct	July 13, 1827
Auger, screw	David Bassett	Derby, Ct New York	Mar. 18, 1829
Auger, screw		New York	Sept. 9, 1833
Auger, single twist	Ezra L'Hommedieu	Norwich, Ct	July 17, 1816
Auger, single twist	Ezra L'Hommedieu	Saybrook, Ct	Oct. 1, 1830
Auger, spiral screw	Alfred Newton	Meriden, Ct	Aug. 8, 1834
Auger, spiral screw, single twist	Nathaniel C. Sanford.	Meriden, Ct	Aug. 8, 1834
Auger, strap	Silas Gore	Sheshequin, Pa	July 20, 1825
Auger, tube	Robert Thomas	Richmond co., N. C.	
Auger, turning any number	Hardin Branch	New York	Aug. 7, 1825
Auger, twisted screw, for boring			
guns.	Daniel Pettibone	Philadelphia, Pa	Feb. 12, 1814
Auger, twisted screw, for boring			4 7 4 1000
guns.	William Holmes		April 4, 1920
Auger, twisting machine	Oliver Snow	Meriden, Ct	May 13, 1834
Auger, for boring Artesian wells.		Now Vort	Aug 17 1049
Bathing tub, design for	Jordan L. Mott		Aug. 17, 1843
Barrels, casks, &c		Oakum, Mass	June 21, 1828
Barrels, chamfering, bevelling, howelling.	Samuel Widaman	Elysville, Md	Anril 92 1946
Remels and other consess was	Samuel Widerman	Mitford Ohio	April 23, 1842
Barrels, and other coopers' ware, machine to be used in combina-	Roby M Thompson	Mitford, Ohio	Nov. 12, 1842
tion with improved iron hoops		Grantine, Onio)	
in the manufacture of.			
THE STATE STREET, STATE OF THE ST	1	l '	

^{*} Reissued July 30, 1845.

INVENTIONS OR DISCOVERIES.	PATENTERS.	hudderes.	WHEN SHOPED.
Barrels, kegs	N. Goodall and N. Tainter.	. Watertown, N. Y	June 9, 1836
Barrels	John Cole and Samue Miller	1	
Barrels, manufacturer	John Squier	Salina, N. Y	Jan. 21, 1835
Barrels, machinery for making Barrels, machinery for making			July 1, 1844 July 30, 1844
Barrels, machinery for making	William Trapp, jr	Drvden, N. Y	Oct. 1, 1845
Barrels, for oil	Barnabas Springer Samuel Pike		April 27, 1832 July 12, 1839
Bench	John Greenholt	Westminster, Md	June 9, 1818
Bench	Baruck Way Jeremy Taylor	Ontario co., N. Y	June 7, 1817 June 30, 1836
Bit stocks, composition	Augustus Phelps	Mariborough, Ct	Oct. 10, 1829
Blocks of wood for paving, forming	of Augustus, Count		
Blocks of wood for paving, sawing	de Lisle Amaziah Nash		July 10, 1840 Nov. 13, 1840
Blocks of wood for paving See	Class 9.	1	
Board, shearing	Abraham Plumb	Cincinnati, Ohio Buffalo, N. Y	
Boring	John Webster	Gt. Barrington, Mass	
Boring	Smith		April 8, 1819
Boring, borer, compound slide and			May 27, 1833
Boring, and framing timber	Zebediah Holt Jared Badger	Chelmeford, Mass Brooklyn, Ct	Jan. 20, 1838
Boring machine	James B. Coffin Andrew Weikart	Mohicanville, Ohio .	June 20, 1845 Nov. 1, 1845
Boring machine for grooves	William Wright	Green Village, Ohio. Rochester, N. Y	June 10, 1845
Boring machine and mortising	Reuben D. Roys, and Newell French		Jan. 23, 1845
Boring machines to the article to		Detroit, Mich	Jan. 20, 1055
be bored, mothod of securing Boring, mitre point		Salem, Ohio Canaan, N. Y	July 1, 1844 Mar. 8, 1810
Boring and mortising	Job Wilkinson	Penfield, N. Y	May 28, 1825
Boring and mortisingBoring and mortising in chair seats		Norwalk, Ohio Chagrin Falls, Ohio.	Jan. 31, 1837
Boring, perpendicular	Roger Selden	Massachusetts	July 7, 1806
Boring posts		Vermont	Nov. 7, 1811 Dec. 21, 1819
Boring posts	William H. Shay	New York, N. Y	Nov. 25, 1839
Boring pumps		Massachusetts Camillus, N. Y	April 13, 1797 Mar. 31, 1898
Boring and screw cutting machine	Aretus A. Wilder	Detroit, Mich	Jan. 31, 1845
Boring, ship parpenters Boring and tenoning		Canaan, N. Y Saugerties, N. Y	Mar. 8, 1810 April 17 1896
Boring and tenoning	David Sperry	Colchester, Ct	April 18, 1827
Boring timberBoring timber for mortising	J. Beckwith	Saratoga, N. Y Cranston, R. I	Dec. 21, 1830 Oct. 23, 1834
Coring timber, machine for	Thomas J. Russell	Franklin Square, O.	
Boring timber		Sheffield, Ohio	Ort 96 1839
Boring wood	John B. Pell	New York	Mar. 2, 1836
Boxes, machinery for preparing wood for making	John H. Stevens	New York	Dec. 19, 1844
Boxes, sugar	Paul Pearson & John		
Boxes, of wood	Howe	Alna, Me Belchertown, Mass.	April 15, 1838 April 13, 1832
Boxes, wooden, preparing wood			
forBoxes, wooden, turning	Jacob Bentz J. H. Stevens, ass'e of	New York	Sept. 20, 1839
Bangs, catting	Chauncey E. Warner Alexander Donaldson.	New York, N. Y Salom, Mass	Jan. 18, 1840 Jan. 15, 1818
<u> </u>			,

^{*} Antedated May 1, 1845.

INVENTIONS OF DESCOVERIES.	PATRITUM.	rendence.	when issued.
Bungs, cutting	Robert Barlow	Philadelphia, Pa	June 29, 1866
Bungs, cutting			
Bungs, manufacturing			
Carpentering, art of			
Carving machine			
Casks			
Casks	Uri Emmons	Greene co. N. Y	Jan. 8 1893
Casks	Uri Emmons	Orden N Y	Jan. 24 1826
Casks and barrel headings	Hiram Andrews	Canaan, Ct	Mar 9 1836
Casks, cutting heading for		Haravilla N V	Ian 97 1836
Casks, machine	Sumner King		Mar. 23 1836
Casks, machine for chamfering,	Summer Eng	Sumeiu, Ot	144. 20, 100
crossing, and howelling	Philip Estis	Adrian, Mich	Dec 3 1846
Casks, steam, to making		Dhiladalahia Da	Dec. 3, 1040
Clapboards, bevelling the ends of		Philadelphia, Pa	Man 9 1945
		Stoughton, Mass	may 2, 10%
Clapboards, circular saw for		Dish Mass	Man 16 1900
Clambanda singular som for	Jaquith	Brunswick, Mass Gorham, Me	O-4 11 1000
Clapboards, circular saw for	Jonathan Fudder	Gornam, Me	Tune 10 1040
Clapboards, lath, staves, cutting	Ebenezer Day	Grand Detour, Ill	June 10, 1043
Clapboards, machine	Daniel Newton	Dalton, N. H	Jan. 31, 1833
Clapboards, from round logs		Worcester, Mass	Aug. 20, 1831
Clapboards, sawing			D 00 100
	& J. S. Stone	Maine	Dec. 28, 1824
Clapboards, sawing			
· ·	Solomon Whiting, jr	Bath, N. H	Mar. 25, 1830
Clapboards, sawing	Otis Parker and Daniel		
	Parker	Hubbardst'wn, Mass	
Clapboards, sawing		Milford, N. H	June 3, 1837
Clapboards, sawing		Wolcott, Vt Dalton, N. H	July 8, 1843
Clapboards, sawing	Daniel Newton	Dalton, N. H	July 20, 1843
Clapboards, sawing	Crawford Tyler	Milford, N. H	Aug. 30, 1838
Clasps, in saw mill gates	Henry and Nelson	·	
• .	Johnson	Erwin, N. Y	May 15, 1837
Coopering	Oliver Barber	Hartford, Ct	Jan. 8, 1810
Coopering	Horace Wright	Onondaga, N. Y	Oct. 23, 1822
Coopering	Hiram Waters	Watertown, N. Y	April 3, 1826
Coopering	Nathaniel Rider	Starbridge, Mass	April 1, 1829
Coopering, working off tool	Melancthon Sutton	Penfield, N. Y	Sept. 9, 1835
Coopering, cross for	James F. Brodhead	Kingston, N. Y	Oct. 8, 1838
Corks, for bottlest	James Barron	Hampton, Va	Jan. 13, 1819
Corks, cutting	Luther Hills	Boston, Mass	June 18, 1827
Corks, cutting	George Rawlings	Philadelphia, Pa	Oct. 30, 1827
Corks, cutting	Samuel Sawver	Boston, Mass	June 10, 1840
Corks, cutting	Charles R. Macy	Hyde Park, N. Y.	Oct. 31, 1840
Dovetailing boards	Ari Davis	Lancaster, Mass	Sent. 6, 1833
Dovetailing and mortising	John Brainerd	Aurora Ohio	Jan. 9, 1838
Dovetails, cutting square joint	William Perrin	Lowell Mass	Mar. 24, 1841
Dovetails and tenons, cutting	Thomas I. Wells	New York	Inly 8, 1841
Dowelling headings for coopers	Dalah Hunt	Ontonio ao N V	Doc 11 189
Dowelling instrument	William Rowhay	Philadalphia Pa	Oct 14 1816
Drawing knife	Edmund Bishards	Hingham Mass	Tune 98 1836
Due woods cutting	Tododish Dishards 2d	Norfolk Ct	Aug 13 1916
Dre woods outling	Acres Dreed	Timberla Co	Tune 0 191
Dwo woods sutting	Danial Cario	Michigan N V	Tal 1 101
Dowelling instrument Drawing knife Dye woods, cutting Dye woods, cutting Dye woods, cutting Dye woods, cutting	Plich Con	Demler Obic	Ten 10 1904
Dye woods outling	LI Lischt & D WELL	Daylon, Unio	Jan. 10, 10%
Dyc woods, cutang	In. maiking c. winte	Semiora, Ci	April II, 104
Dye woods, cutting	Ephraim Morris	Bloomneid, N. J	DEPL 21, 102
Dye woods, cutung	Merrit Hurd	Augusta, N. Y	July 22, 1831
Dye woods, cuting	Lucius H. Mosely	roughkeepsie, N. Y	June 22, 183
Dye woods, cutting	Abner McMillen	Bedford, N. H	Dec. 26, 1837
Dye woods, cutting and shaving.	B. Swift	Washington, N. Y	Aug. 10, 1836
Dve woods, cutung, and tan bark	1		•
self feeding	Aaron Foster	Rochester, N. Y	Dec. 9, 1823
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^{*} Antedated July 27, 1837.

 $[\]dagger$ Extended 14 years from Jan. 14, 1833, by Congress, July 2, 1836.

INTERPRESENT OR DISCOTERIZA.	PATRICTARA.	regrence.	WINN MORED.
Dye woods, rasping	Samuel Stone	Enosburg, Va	May 3, 1841
Dye woods, rasping Dye woods, rasping, sawing, and	Joseph Broad	Springfield, Mass	Mar. 1, 1814
grinding	John Matthews	Philadelphia, Pa	Aug. 13, 1805
Dye woods, rasping, sawing, and	John Matthews	Philadelphia, Pa	Feb. 6, 1807
Dye woods, rasping, sawing, and grinding	Ephraim Hubbell	Middlebury, Vt	June 27, 1809
Fence pickets, cutting	J. Tichenor, S. Good-	Cortland, N. Y	Feb. 1, 1833
Fence pickets, turning	rich, & G. A. Hart Elisha Briggs	Ithaca, N. Y Perry, N. Y	June 22, 1836 July 20, 1842
Gauge and jointerGimlet	John Waddsworth Ezra L'Hommedieu	Milton, Mass Chester, Ct	Feb. 10, 1810 Mar. 10, 1838
Gimlet, forging	De Grass Fowler William M. Fowler	Wallingford, Ct N. Brandford, Ct	July 2, 1836 April 28, 1836
Gimlet, twist screw	Joseph Broad	Salisbury, Ct	June 25, 1813
Grooving machine	David D. Hanson John Shugert	Ware, N. H Laurenceville, Pa	June 29, 1833 Nov. 19, 1833
Grooving planeGrooving plane	James Herman S. Longanecker and	Lancaster, Ohio	Aug. 27, 1835
Grooving plane	Charles Myers E. W. Carpenter	Lancaster, Pa Lancaster, Pa	Feb. 7, 1829
Hoops, and barrels, dressing	Kimball, Perry, and Spaulding	Peterborough, N. H.	
Hoops, coopers', making out of split timber		Brookville, Ind	Nov. 6, 1843
Hoops, making	Moses Granger Phineas Slayton	Utica, N. Y Lockport, N. Y	Dec. 31, 1833
Hoops, sawing Hoops, sawing laths and staves	Isaac Price, jr	Lockport, N. Y	May 1, 1828 Aug. 19, 1828
Hoops, sawing, (improvement on Slayton's).	Nicholas Bratt	Lockport, N. Y	July 31, 1828
Hoops, shaving, out of split timber Hoops, shaving.	Gab. Heatwoal	Petersburg, Va Harrisburg, Va	May 17, 1810 July 27, 1831
Hoops, splitting	William Rose Tristram Burgess and	Philadelphia, Pa	Sept. 3, 1844
Joint, carpenter's sliding	Geo. B. Raymond and	Livonia, N. Y	Jan. 21, 1835
Joint, of woed work	Shadrack Trumbull. S. C. Batchelor and N.	Suffield, Ct	April 23, 1816
Jointing boards	H. Thomas Elijah B. Clarke	Watertown, N. Y Damascus, Pa	Mar. 30, 1836 Jan. 31, 1827
Jointing and matching boards	David Gleason and H. Frisbee	Bethany, N. Y	April 8, 1826
Lagging machine for cutting circles Lasts, manufacturing	Benjamin B. Slade William Young	Smithfield, R. I Philadelphia, Pa	Jan. 27, 1833 May 20, 1807
Lasts, right and left	William Young Seth Carsley, 2d	Baltimore, Md Harrison, Me	June 10, 1817 April 2, 1830
Lathe	Elias Rhodes Enos & Nelson Alvord	Kingsbury, N. Y	Nov. 11, 1830 Oct. 11, 1836
Lathe, chuck for	Simon Fairman Sidney S. Hogle	Waterford, N. Y Rockville, N. Y	July 18, 1840 Nov. 16, 1841
Lathe, cooper's	Isaac Hoover	Miamisburg, Ohio	July 2, 1835
Lathe, pattern for turning lasts. Lathe, pin for turning wire eyed	Henry Mellish		
buttons	William Lawrence		
Lathe, turning	William Ross	Chester county, Pa	July 10, 1809
Lathe, turning	William Patrick	Leverett, Mass	April 24, 1827
Lathe, turning	Jefferson Moore Elijah Rutnam	Gardiner, Me	Jan. 19, 1828 Dec. 9, 1829

Diventions or distoverish.	PATEMPER.	radistroz.	WHEN STREET.
Lathe, turning	Cotton White and A.	TT 11 26	34 90 1004
Lathe, turning	Hill	Hadley, Mass Yorkborough, Pa	Mar. 30, 1824 Dec. 14, 1830
Lathe, turning	William Green	Bedford co., Tenn	April 27, 1832
Lathe, turning	John Bisbee	Plainfield, Mass	Nov. 8, 1832
Lathe, turning	John Clarke, jr	Mile End, Glasgow,	T 1 00 1040
Tasks summing	Tomas D. Williamski	North Britain	July 30, 1840
Lathe, turning	James D. Willoughby Milton W. St. John	Gettysburg, Pa Plainfield, N. Y	Mar. 15, 1845 May 13, 1845
Lathe, turning boats' oars	Bennet Potter and A.	I faitifficia, 24. 2 · · · ·	10, 10,
	F. Potter	Hubbardstown, Mas	
Lathe, turning chair tops	Horacio Cooke	New York	Nov. 30, 1832
Lathe, turning, handles, poles	Collins & Wistar, as-	Dhiladalahia Da	Tune 7 1841
Lathe, turning irregular forms	si'ees of Stacy Costill	Philadelphia, Pa	June 7, 1841
Antilo, turning in og and rorms ***	Sprague, and Milton		
•	T. Whipple	Douglas, Mass	April 3, 1635
Lathe, turning or cutting irregular			36 01 1040
forms	Thomas Blanchard	Boston, Mass	Mar. 21, 1843
Lathe, turning irregular forms Lathe, turning irregular forms	Edwin Tucker Warren Hale and Al-	Bucyrus, Ohio	Oct. 24, 1844
Editic, turning frequent forms	len Goodman	Dana, Mass	July 22, 1845
Lathe, turning mouldings & beads		Thompson, N. Y	July 31, 1837
Lathe, turning rake and hee han-			D
dies.	J. C. Sperry	den, N. Y	Dec. 3, 1827 Dec. 26, 1827
Lathe, turning rake & hoe handles Lathe, turning rake handles	James Haven	Rotterdam, N. Y Newport, N. H	Oct. 14, 1835
Lathe, turning machine for rake		Blanford and Spring-	11, 1000
teeth.	Stedman	ham, Mass	Jan. 13, 1835
Lathe, turning rollers for rolling		D : 1	T 04 1010
Lathe, turning spools	Samuel Rogers Jonathan H. Cary	Bridgewater, Mass. N. New Salem, Mas	June 24, 1818 Aug. 21, 1844
Lathe, turning wood tapering	Wyllys Avery	Salisbury, N. Y	June 5, 1844
Lathe, turning tenons for rake teeth	J. W. Sweet and W.		
Tally and in the sales	Stedman	Berkshire, Mass	Mar. 5, 1827
Lathe, turning whip stocks	Giles Dayton and An-	Westfield, Mass	April 27, 1832
Lathe, wheel	drew Mallory Benjamin Hoadley	New Haven, Ct	Dec. 16, 1814
Lathe, wheelwright's felloe	John Sitton and James	Pendleton & Colum-	
	A. Black	bia, S. C	May 5, 1828
Laths and clapboards, sawing	Eliphalet C. Gilman	Canaan, Coan	Aug. 23, 1844
Laths, cutting	John N. Lynch Jacob Jameson	Dillsburg, Pa Springfield, Ohio	Feb. 16, 1830 Aug. 24, 1831
Laths, cutting	Ira Carpenter	Cincinnati, Ohio	May 2, 1832
Laths, cutting	Orange H. Dibble	Evans, N. Y	Jan. 22, 1833
Laths, cutting	Jas. Mead and A. W.		
•	Pierson, ex'rs of Wil.	Lebanon, Ohio	Dec. 31, 1833
Laths, cutting	Pierson, deceased Dana Hubba	Wheeling, Va	July 18, 1834
Laths, cutting	William W. Lesuer	Urbana, Ohio	Oct. 8, 1834
Laths, cutting	David M. Cradis	Ithaca, N. Y	May 22, 1835
Laths, cutting	James M. Winslow	Campbell's Port, O.	Oct. 3, 1846
Laths, hoops, slitting Laths, machine	Benj. K. Crandell Siba Howard & Caleb	Lockport, N. Y	Aug. 25, 1828
	Howard	Eaton & Bristol, Mas	Dec. 17, 1834
Laths, machine	Elihu Smith	Ithaca, N. Y	April 28, 1836
Laths, machinery for manufactur'g		Cincinnati, Ohio	Oct. 9, 1827
Laths, machinery for manufactur's		Lockport, N. Y	July 23, 1828
Lath, machine for cutting	Solomon F. Finch and James Wheeler	Rootstown, Ohio	Aug. 16, 1845
Lath, machine for cutting	Samuel Cheney	Cleveland, Ohio	Sept. 27, 1845
Laths, metallic.—See Class 2.			
Laths, revolving, cutting	Simon Willard	Cincinnati, Ohio	Mar. 16, 1832
Laths, sawing	Channing Madison	Miamisburg, Ohio	Thu 4, 1091

INVENTIONS OR DISCOVERIES.	Patentees.	residence.	WHEN ISSUED.
Laths, splitting and cutting	Barnabas Langdon	Tmv. N. V	Dec. 15, 189
Logs, setting	Waterman B. Palmer.	Rrookfield N V	Inly 24 1844
Match splints, cutting	Hervey Law	Wilmington N C	Aug 98 1844
Mitring and dovetailing boards	Richard Urann	Roston Mage	Oct. 26, 1839
Mitring and dovetailing the ends		Doswii, Mass	001. 20, 1005
of boards, &c		Princeton, Mass	Aug 91 1830
Mitre machine	Zaccheus Kelley		
Mortising			
Mortising hubs, machinery for	Archibald Thompson.		
Mortising machine	Simeon Glover and D.	Ridgeville, Md	april 20, 10%
	Parmelee	Newtown, Ct	June 8, 1807
Mortising machine	Henry Parmelee	Killingworth, Ct	Feb. 15, 1810
Mortising machine	Nathan Mead & J. Cu-		100, 1010
	tal	Walpole, N. H	Nov. 3, 1817
Mortising machine		New York	Dec. 22, 1825
Mortising machine		Mexico, N. Y	July 10, 1827
Mortising machine			10, 10,
	Amidon	Mexico, N. Y	Dec. 28, 1827
Mortising machine	John J. Kellogg	Richmond, N. Y	Jan. 24, 1828
Mortising machine	John J. Kellogg William E. Marsh	Westfield t'n'n. N.I.	April 18, 1828
Mortising machine	Abner Foster	Phillipstown, Mass	April 29, 1830
Mortising machine	Henry Marsh	Morristown N. I	June 13, 1831
Mortising machine	John Hasset Chandler	Worcester Mass	Dec. 17, 1834
Mortising machine	Grove Bradlev	Auburn, N. Y	Feb. 25, 1835
Mortising machine	Grove Bradley Jonathan Page	Henniker N. H.	June 12, 1835
Mortising machine	Israel J. Richardson	Palmyra, N. Y.	July 7, 1835
Mortising machine	Imla Wright	Centre Antrim. N.H.	July 17, 1835
Mortising machine	Charles Gates	Centre Antrim, N.H.	Sept. 26, 1835
Mortising machine	George Page		Mar. 18, 1836
Mortising machine	Erastus M. Shaw	Wilbraham, Mass	Mar. 23, 1836
Mortising machine	J. C. Channell	Dunstable, N. H	June 16, 1836
Mortising machine	Lemuel E. Babcock	Oldstead, N. H	June 16, 1836
Mortising machine	John Hawkins	Stockbridge, Mass.	June 20, 1836
Mortising machine	David Clark	Brooklyn, Ct	Sept. 14, 1836
Mortising machine	John McBride	Richmond, Ind	Nov. 26, 1835
Mortising machine	Joseph Dennis and Li		-
	J. Richardson	Palmyra, N. Y	Nov. 19, 1833
Mortising machine	J. Richardson Henry Mellish James King Benj. H. Otis	Walpole, N. H	Nov. 19, 1833
Mortising machine	James King	Morristown, N. J	Mar. 18, 1841
Mortising machine	Benj. H. Otis	Dedham, Mass	Feb. 20, 1846
Mortising machine	Unaries Bennett	Pennerell, Mass	Sept. 17, 1845
Mortising machine and boring hubs	Geo. Nichols, assignee		•
	of J. J. Greenough	Bridgeport, Conn	June 13, 1846
Mortising and boring machine	Marcellus Sands	Franklin, N. Y	Oct. 1, 1830
Mortising and boring machine	George Page	Keene, N. H	Mar. 13, 1830
Mortising and boring stiles for			
doors	David Hathaway	Troy, N. Y	Feb. 5, 1833
Mortising chisel	Charles Rhinehart	Marietta, Lan'r co. Pa	April 8, 1835
Mortising chiest	George Page	Keene, N. H	July 7, 1835
mountaing chiract criting and clear-			
ing	George Page	Keene, N. H	Aug. 14, 1833
Mortising chisel, bearded Mortising door stiles, &c	Silas Metcalf	Wilmington, Vt	Jan. 17, 1827
Mortising door stiles, &c	Asaph Whitmarsh	E. Bridgewater, Mas	July 30, 1833
auditing, lever power	I nomas Green	Manlius, N. Y	April 12, 1826
Mortising posts and sharpening		NY NY 1	
rails	Wandle Mace	New York	Mar. 11, 1837
Mortising, sawing, and boring	Reuben Medley	Bloomfield, Ky	July 7, 1829
Mortising and tenoning	Sylvanus Baldwin	Montpelier, Vt	Mar. 17, 1810
	John McClintic	Chambersburg, Pa	Oct. 8, 1827
Mortising and tenoning			1
Mortising and tenoning	Wm. Jackson and J. J.	G	0
Mortumng and tenoning	Speed, jr	Speedville, N. Y	Oct. 10, 1828
Mortising and tenoning Mortising and tenoning Mortising and tenoning		Speedville, N. Y Northampton, Mass. Genesce co., N. Y	

INVENTIONS OR DISCOVERIES.	Patristr is .	residence.	WHEN ISSUED
Mortising and tenoning	L. Sprague, M. Noyes		
	T. Lund, jr., and J.		
	Ayres	Dunstable, N. H	Nov. 19, 183
Mortising and tenoning	Erastus M. Shaw	Brooklyn, N. Y	
Mortising and tenoning	Erastus M. Shaw	Brooklyn, N. Y	
Mortising and tenoning	Joseph H. Darby	Leominster, Mass Munson, Ohio	June 15, 183
Mortising and tenoning Mortising and tenoning machine .	Henry Barnes Andrew Bailey	Jefferson, Ohio	April 28, 183 June 20, 184
Mortising, tenoning, and boring		oucieon, omorrio	Julie 20, 101
machine.	James H. Martin	Conesville, N. Y	July 16, 183
Mortising and tenoning machine	Warren L. Peters	Frankfort, Pa	
Mortising and tenoning machine	Thomas A. Chandler.	Rockford, Ill	
Mortising and tenoning sash, doors			
and blinds	Ira Gay	Dunstable, N. H	
Mortising timber	Jeremy W. Bliss	Sommers, Ct	Mar. 20, 183
Mortising timber	George Page	Keene, N. H	
Mortising timber*	Thomas H. Hoskings Francis and Thomas	Springfield, Ohio	June 30, 183
morning unioci	Burdick	Brooklyn, N. Y	April 7, 183
Mortising timber		Sunderland, Vt	
Mortising timber	John Andrews	Sudbury, Mass	
Mortising timber	John Gridley, ass'ee of	,	
	Erastus M Shaw	Baltimore, Md	Sept. 22, 183
Mortising timber	Jerub A. Fay	Keene, N. H	
Mortising in wood	George Page		
Oars, machine for turning	Ezekiel Page	Barcelona, N. Y	Dec. 26, 184
Pails and buckets, affixing the ears		Hamman N V	M 10 104
and bales of	John F. Phelps		May 12, 184
Pales, for fencing	Reuben Hyde Amos Miner	Winchester, Mass Camillus, N. Y	
Pegs, cutting	Hezekiah Thurber	Painted Post, N. Y.	May 22, 182
Pegs, cutting and pointing			
Pegs, making	Thomas Rowell	Hartford, Vt	
Pegs, making	S. Beckwith, S. Beck-		
	with, jr., and Eleazer		
Dana an aine antistica	Beckwith	Westmoreland, N. Y	Jan. 27, 182
Pegs or pins, pointing	James Hull		July 7, 183
Pegs, pointing Pegs, pointing and splitting	Wm. A. Greenwood Thomas Rowell		Feb. 11, 182
Pegs, shoe	R. H. Thompson		Mar. 23, 183
Pegs, shoe, splitting			
Pegs, shoe, machine for cutting	S. K. Baldwin	Guilford, N. H	July 16, 184
Pegs, shee, machine for making			
Pegs, shoe, machine for making			
and driving	John C. Briggs	Saratoga, N. Y	Oct. 9, 184
Pit sawing and slitting machine for		N W1-	F 07 104
sawing logs		New York	June 27, 184
PlanePlane, accelerating, for planing &	J. T. Jones	Philadelphia, Pa	May 14, 183
grooving	John W. Newbury	Avon, N. Y	Nov. 15, 183
Plane, bench, setting the bitt	Levi Sanford	East Solon, N. Y	Nov. 26, 184
Plane, bevel wheel, for planing	Jona. Newhall	Washington, Me	Jan. 25, 183
Plane, carpenter's	R. Welford and J. H.	1	
	Deats	Philadelphia, Pa	
Plane, carpenter's	Phinehas Meigs	Madison, Ct	Feb. 9, 183
Plane, double iron	William B. Reynolds.	St. Clairville, Ohio	July 7, 183
Plane irons.—See Class 2.	T		
Planes, joiner's	Leonard Bliss, ass'nor		T 10 10
Plane plough	to S. S. Jeffery	Truxton, N. Y	June 16, 184
Plane, plough		Philadelphia, Pa	Jan. 9, 183
Plane, revolving	Lemuel Hedge	Warwick, Mass	June 98 183
Plane, screw arms for	Lemuel Hedge Eman'l W. Carpenter.	Lancaster, Pa	Feb. 6, 183
Plane, sliding	The state of the pointer,	Portland, Me	1 5 20 100

^{*} Additional improvement Aug. 1, 1838.

inventions or discovering.	Pathirmes.	Rasponer.	WHEN SHOPED.
Plane stocks, cast iron	Hazard Knowles	Colchester, Ct	Aug. 24, 1827
Plane stocks, cast iron*	William Foster	Washington, D. C	Nov. 24, 1843
Planing, for barge and scale boards	Wm. Kimball & Sam'l		
701	Willard, jr	Mount Vernon, N.H	Oct. 23, 1813
Planing blind slats	Arad Woodworth, 3d.	Worcester, Mass	Aug. 26, 1846
Planing boards	Jos. Percival	Philadelphia, Pa	July 20. 1831
Planing boards	Eben Lane:	Cincinnati, Ohio Dunstable, N. H Penn Yan, N. Y	Tuna 2 1997
Planing boards	Robert Luscomb	Penn Yan, N. Y	June 19 1838
Planing boards	Joseph Lombard	Boston, Mass	Oct. 13, 1838
Planing boards	Barnabas Langdon	Troy, Ń. Y	Jan. 9, 1838
Planing boards, grinding & polish-			i
ing marble, &c.	Moses Lancaster	N. Liberties, Phil	April 5, 1832
Planing, cylindrical	Uri Emmons	New York	April 25, 1829
Planing, edging & grooving boards Planing engine, circular	Jacob Tees Uri Emmons	Kensington, Pa	Sant 10 1990
Planing and grooving	Caleb Taylor		Feb. 7 1890
Planing, grooving, cutting boards,			100. 1, 1000
and dressing brick	William Woodworth.	Hudson, N. Y	Dec. 27, 1828
Planing and joining	Joseph S. Mott	Albany, Vt	Mar. 8, 1806
Planing and joining, tonguing and			
grooving†	James McGregor, jr	Wilton, N. Y	Aug. 28, 1833
Planing machine	John Bennock	Boston, Mass	June 1, 1805
Planing machine	Joseph Hawkins Christian Ritter		Feb. 19, 1806
Planing machine	Joseph Coppinger		Aug. 11, 1809 Oct. 31, 1809
Planing machine	James Baldwin	Westfield, Mass	Mar. 7, 1818
Planing machine	Herman Allen	Randolph co., N. C.	Dec. 22, 1826
Planing machine	Josiah Reihm		Nov. 1, 1827
Planing machine	Thomas F. Fuller	Bristol Pa	Oct. 25, 1832
Planing machine	Benjamin Kugler	Philadelphia, Pa	June 3, 1833
Planing machine	Thomas E. Daniels Fisher Stedman	Worcester, Mass Aquacanock, N. J	Dec. 23, 1834
Planing machine	Reid R. Throckmorton	New York	Oct. 6, 1835
Planing machine	Reid R. Throckmorton	New York Sunderland, Vt	Oct. 22, 1835
Planing machine	McLauchlin & Hill	Sunderland, Vt	Oct. 28, 1835
Planing machine	Melzer Tuells		
Planing machine	Lorrain Curtis	Sherburne, N. Y	June 16, 1836
Planing machine	P. M. Marlz	Sherburne, N. Y Marion co., Ia Dunstable, N. H New York	June 25, 1836
Planing machine	Ira Gray	New York	Nov. 15 1836
Planing machine	Alonzo G. Hull	Brooklyn, N. Y	Sept. 20, 1837
Planing machine, (improvem't on		,,,,	
Woodworth's)	Artemas L. Brooks	Lowell, Mass	Jan. 7, 1835
Planing machine	Freeman Walcott and		·
	Jas. H. Hutchinson,		
	of Walcott)	Roston Mass	Tul- 16 1920
Planing machine	Hervey Law	Wilmington N.C.	Sent 30 1841
Planing machine	Hervey Law Reid R. Throckmorton	Boston, Mass	May 1, 1845
Planing machine	Benjamin Brown	Burlington, Vt	Oct. 9, 1845
Planing machine	Joseph E. Andrews	Boston, Mass	Nov. 21, 1845
Planing machine, fastening cutters	Benjamin Bucknell	Cincinnati, Ohio	Mar. 21, 1845
Planing machine for shingles	Joseph S. L. Hunt	Boston, Mass	Oct. 9, 1845
Planing and matching	Zadock B. Grover and D. Lawton	Springwater N V	Dec 92 1924
Planing moulding, & smooth pla-		Springwater, N. Y.	DEC. 23, 1034
ning	Charles Thompson	Poughkeepsie, N. Y.	Dec. 6. 1830
Planing mouldings on wood	Ambrose Church, jr	Canandaigua, N. Y.	July 29, 1837
Planing, sawing, and feeding ma-			•
_ chine	Thomas J. Wells	New York, N. Y	April 11, 1846
Planing and sawing bellows boards		New Haven, Ct	June 1, 1805
* Additional imprevement, March 16,	1844.		•

^{*} Additional improvement, March 16, 1844.
† Extended 7 years, from Dec. 27, '42, and 7 years, from Dec. 27, '49; reissued July 8, '45; disclaimers March 1, '38, June 8, '40, Jan. 6, '43, Jan. 13, '43, and July 27, 1844.
† Add'l imp., Jan. 9, 1838; disclaimer May 10, 1839; reissued July 15, 1843.
† Reissued Dec. 6, 1832, and Jan. 29, 1834.

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INTENTIONS OR DISCOVERING.	PATENTEER.	residence.	WHEN ISSUED.
Planing and shaving	William Badger	Madison co., Miss	May 0 1019
Planing, tonguing, and grooving	John Drummond	Whitestown, N. Y.	Mar. 2, 1813 April 27, 1832
Planing, tonguing, and grooving	John D. Beers	Philadelphia, Pa	Tan 19 1034
Planing window sash	Ira Gay	Dunstable, N. H	
Planing wood, horizontal knife	Uri Emmons	New York	
Plough beams, carriage shafts, and	D. Ruggles, Nourse,	THEW POIR	Mar. 6, 1832
cross bars, machine for hewing.	and Mason, ass'nees		
Com oute, macune for new mb.	of E. G. Matthews	Worcester, Mass	00 1040
Ploughs, manufacture of	D. Ruggles, Nourse,	Wordester, Mass	Oct. 22, 1840
Liougno, mananacare or tretter	and Mason, ass'nees		
	of E. G. Matthews	Worcester, Mass	Fab 02 1041
Reeding and fluting, straight and	or 2. G. Manuelle 3		Feb. 23, 1841
spiral	John January	Greenville, Ky	Man 2 1000
Rules, carpenters' joints	Lemuel Hedge	Brattleborough Vt	
Sample box	George P. Oakley	Brattleborough, Vt	
Sash machine	Almon Downs	Poughkeepsie, N. Y. St. Clair, Mich	Nov. 25, 1818
Saw, annular	Robert Grant	Baltimore, Md	
Saw belt	William Cary		
Saw belt and band	Adam Stewart	Poughkeepsie, N. Y.	Feb. 17, 183
		Baltimore, Md	July 5, 181
Saw belt, for timber	Benjamin Barker	Ellsworth, Me	Jan. 6, 183
Saw, chain, for wood, metal, and	Phinasa P Quidahar	Dolfart Ma	T 0 100
stone	Phineas P. Quimby	Belfast, Me	June 3, 183
Saw, circular	Zachariah Cox	Georgia	Mar. 14, 179
Saw, circular	William F. Hill	New York	July 11, 181
Saw, circular	John Brown	Boston, Mass	Aug. 13, 182
Saw, circular	Sylvanus Bonnell	Chatham, N. J	Sept. 26, 182
Saw, circular	William Kendall, jr	Kennebec, Me	May 18, 182
Saw, circular	Levi Hitchcock	Springfield, Mass Cincinnati, Ohio	June 29, 183
Saw, circular, for cutting laths	Francis Shumard	E	Oct. 31, 183
Saw, circular	Jonathan Gove	Fayetteville, N. C	Oct. 16, 183
Saw, circular, preparing blocks for	Tanashan Maumu	Dowland Ma	T 00 100
matches.	Jonathan Morgan	Portland, Me	June 27, 183
Saw, circular, relieving the collar		T	D
of a.	James Sproat	Taunton, Mass	Dec. 31, 183
Saw, circular, for cutting off piles	Emantum E Cala	Pantan Mana	
under water*	Erastus E. Cole	Boston, Mass	Sept. 14, 184
Saw, circular, sawing lumber, man-	Tohn K Mosso	Ourington Ma	Mr 00 104
ner of applying	John K. Mayo	Orrington, Me	Mar. 20, 184
Saw, circular, reacting	William Avery	Cazenovia, N. Y	Dec. 8, 182
Saw, circular, revolving	Tyler Howe	Spencer, Mass	Feb. 19, 182
Saw, cross-cut	Thomas Cahoon	Cazenovia, N. Y	April 11, 180
Saw, cross-cut, circular	Aaron H. Foote	New London, N. Y.	July 14, 163
Saw, cutting timber	John Ruthven	New York	Nov. 30, 183
Saw, cylindrical	Lewis B. Bump	warenam, Mass	Aug. 29, 182
Saw, double toothed	Stafford Dawley	Annesville, N. Y New York	Jan. 14, 183
Saw, for felling trees	James Hamilton	New York	June 26, 183
Saw, for felling trees	Walter Hunt	New York city	Jan. 6, 183
Saw frame, armed		Nashville, Tenn	June 18, 182
Saw gate, give motion to	Samuel Herrick	Clermont co., Ohio.	July 21, 181
Saw, hand	Isaiah Jennings	New York	April 17, 180
Saw, hanging and straining		Walpole, N. H	Oct. 13, 182
Saw, horizontal and vertical	Adam Stewart	Baltimore, Md	July 5, 181
Saw-guides, mill	Jonathan Norctoss	Latonion, Pa	: Aug. ~4. IX4
Saw, machine for filing			
Saw mills	Henry Dulheur	South Carolina	Aug. 18, 179
Saw mills	Aaron Clarke	New York	.! Mar. 30, 170
Saw mills	Thomas Payne Moses Coates	New York	Dec. 2, 179
Saw mills	Moses Coates	Pennsylvania	April 1, 180
Saw mills	Hezekiah Kichardson	1!	1
~	and Levi Richardson	Massachusetts	April 28, 180
Saw mills	Jos. Quimby	Boston, Mass	l April 25, 186
Saw mills	Jacob Spafford	Ipswich, Mass	June 23, 180
		i .	
Saw mills	EzraOld and Pliny Up		1_
Saw mills	EzraOld and Pliny Up-	Worcester, Mass	Dec. 24, 186

INVENTIONS OR DISCOVERIES.	Patritres.	raemance.	with fireho.
Sew mills	Abel Wright	Canaan, N. Y	Mar. 7, 1819
Saw mills	Adonijah Jones, jr	Bethlehem, Mass	Mar. 14, 1810
Saw mills	Miles H. Abbott	DL 1. 1.1.1.1. D.	Feb. 26, 1811
Saw mills	Oliver Evans	Philadelphia, Pa	April 15, 1811 May 24, 1811
Saw mills	Marshall Lewis Webb Hart	Chenango, N. Y Cheshire, Conn	May 26, 1812
Saw mills	Hiram Whitcomb	Cornwall, Conn	Mar. 2, 1813
Saw mills	Luther Bissell	Hartwick, N. Y	July 3, 1813
Saw mills	Elisha Morgan	Clinton county, N.Y.	Jan. 24, 1815
Saw mills	Henry Quinn	Huntington, N. J	Feb. 21, 1815
Saw mills	Thomas Cahoon	Washington, D. C.	Jan. 5, 1816 April 5, 1817
Saw mills	David and M. Fountain Daniel Collins	Eastern Shore, Md Genesee co., N. Y	Jan. 6, 1818
Saw mills	John Bruff	Somerset co., Md	Aug. 16, 1821
Saw mills	Thomas White	Chester, S. C	April 27, 1822
Saw mills	Isaac Ryon	Bridgewater, Mass	Nov. 24, 1825
Saw mills	Ebenezer Whitney	Ithaca, N. Y	Nov. 1, 1825
Saw mills	Israel Johnson, jr	Villenovia, N. Y	Feb. 8, 1826
Saw mills	Anthony Bencine	Milton, N. C Greensborough, N.C.	June 4, 1827 Dec. 11, 1827
Saw mills	Benjamin Overman	Woodstock, Vt	April 28, 1828
Saw mills	Isaiah Call	Deerfield, N. Y	April 7, 1829
Saw mills	Israel Johnson, jr	Moriah, N. Y	May 7, 1829
Saw mills	Eli Mobley	Fredericktown, Md.	June 5, 1830
Saw mills	Jacamiah Šmith	Morris, N. J	Jan. 27, 1831
Saw mills	Rufus Eaton	Concord, N. H	Nov. 24, 1831
Saw mills	Vachael Blaylock	Bellefontaine, Ohio	Mar. 24, 1832
Saw mills	John R. Drake	Owego, N. Y Walpole, N. H	April 27, 1832 June 1, 1832
Saw mills	Levi Chapin David W. Hall	Sparta, Ga	Nov. 27, 1832
Saw mills	Henry Gordon	Liberty t'nship, Pa.	Feb. 28, 1833
Saw mills	Nathan Kirk	Clinton county, Ind.	Nov. 19, 1833
Saw mills	Asa Ransom	Clarence, N. Y	June 26, 1834
Saw mills	Ernst G. Augustin	New York	July 17, 1835
Saw mills	Lynus Yale	Utica, N. Y	Sept. 11, 1835 Oct. 6, 1835
Saw mills	Uri Emmons	New York Montgomery co.,Te.	Feb. 3, 1836
Saw mills	G. W. Black David Washington	Peru, Mass	Feb. 25, 1836
Saw mills	Isaac Read	Marshfield, Mass	Mar. 2, 1836
Saw mills	Daniel Gerrish	Boston, Mass	April 11, 1836
Saw mills	James Sanders	Alleghany co., Md	April 28, 1836
Saw mills	W. J. McGhee	Columbus, Ga	May 14, 1836 June 2, 1836
Saw mills	T. B. Naylor	Jonesville, N. C New York city	June 2, 1836 June 30, 1836
Saw mills	Simon Willard Samuel Goudy	Greensburg, Ky	July 2, 1836
Saw mills	John Ambler	Philadelphia, Pa	Dec. 1, 1837
Saw mills	Cornelius Van Alstine	Manlius Centre, NY.	Aug. 18, 1838
Saw mills	James Secor	New York	April 28, 1838
Saw mills	Eden Baldwin	Ashfield, Mass	Jan. 31, 1839
Saw mills	David Philips	Georgetown, Pa	Mar. 12, 1841
Saw mills	James B. Lowry Philander Eggleston	Mayville, N. Y	June 11, 1841
Saw mills	William Bryant	Nashville, Tenn	June 11, 1841
Saw mills	Lemuel Hedge and Ed-		June 18, 1842
Oill-	win F. Johnson John E. Kenderline	New York, N. Y Lamberton, Pa	
Saw mills	R. S. Morrison and B.	Aminocioni, a a	
Saw mills	B. Cushing	Frankfort, Maine	Mar. 7, 1846
Saw mills	Horace Merrill	Wheatland, N. Y	Sept. 3, 1846
Saw mill, by animal power	Ethan Owen	P. George's co., Va.	
Saw mills, apparatus for setting			§
head and tail ends of logs in	George Sweney	Bucyrus, Ohio	Mar. 7, 1846
Saw mill, arranging the saw gate	Commel Dealine 03	Gratan V.	May 7 1849
and fender posts of	Samuel Darling, 20	Groton, Therese	, 1.10g 1, 104a

			
INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHEN ISSUED.
Saw mill, blocks for	Erastus Rathburn	Conneaut, Ohio	April 11, 1836
Saw mill, block head for		Richland, Ohio	Feb. 28, 1832
Saw mill, carriage		Adams county, Pa	April 8, 1835
Saw mill, carriage		Mount Morris, N.Y.	Sept. 18, 1835
Saw mill carriages	James Dane	Mount Morris, N.Y. West Derby, Vt	April 22, 1845
Saw mill, carriage, head block for		Schoharie, N. Y	July 9, 1814
Saw mill, carriage, propelling	Jos. Mitchener	Chester t'nship, Ohio	
Saw mill carriage, self-setting ap-		, c	,,
paratus for setting logs on	Benjamin Webb	Warren, N. Y	May 6, 1844
Saw mill carriage, setting logs on .	John B. Squeir	Liberty t'nship, Ohio	
Saw mill carriage, steadying the		,	
logs thereon	Henry Stanton	Richland, N. Y	July 16, 1944
Saw mill, circular		Shaftsbury, Vt	Nov. 24, 1809
Saw mill, circular	Thomas Blanchard	New York	Aug. 8, 1834
Saw mill, circular		Charlotte, N. C	
Saw mill, circular, railway, and		02001010, 211 01111	
propelling machinery		Cincinnati, Ohio	June 29, 1832
Saw mill, circular, wedge for		Hartwick, Vt	July 22, 1831
Saw mill, constructing		Pomfret, N. Y	Mar. 27, 1835
Saw mill, crank	Benjamin F. Snyder.	Elmira, N. Y	Sept. 29, 1836
Saw mill, cross-cutting	Rufus Riker	Dexter, Maine	Feb. 20, 1836
Saw mill, curvilinear	David Baker	Ipswich, Mass	
Saw mill, descending	Stephen Belknap and	1po w 1cm, 144050	1108. 1, 1020
but mm, descending	Samuel Merrill	Georgetown D C	Feb. 15 1811
Saw mill, dogs	Martin Rich	Georgetown, D. C Candor, N. Y	Feb 19 1830
Saw mill, dogs		Spencer, N. Y	April 10 1830
Saw mill, dogs	Joshua Pierce, Joshua	Spencer, IV. I	inpin 10, 1000
ou w mm, dogs	Whitley, and Aaron		
	S. Whitley	Candor, N. Y	April 13 1830
Saw mill, dogs	Martin Rich	Candor, N. Y	April 13, 1830
Saw mill, dogs		Spencer, N. Y	April 96, 1831
Saw mill, dogs	Martin Rich	Ithaca, N. Y	Feb. 8, 1833
Saw mill, dogs*	Martin Rich	Ithaca, N. Y	Mor 6 1834
Saw mill, dogs †	Phineas Bennett	Hector, N. Y	Dec 9 1694
	H. Thurber	Painted Post, N. Y.	May 30 1888
Saw mill, dogs	Martin Rich	Ithaca, N. Y	
Saw mill, dogs	Damon A. Church	Friendship, N. Y	April 16 1841
Saw mill, dogs	Linus Yale	New Port, N. Y	Tuly 99 1841
Saw mill, dog gauge	Martin Rich	Caroline N V	Mar. 27, 1835
Saw mill, dog block		Caroline, N. Y Painted Post, N. Y.	April 3 1835
Saw mill, dog lever	Martin Rich	Caroline, N. Y	Mar 95 1835
Saw mill dog, self-setting	George Henning	Ithaca, N. Y	
Saw mill, for dye woods	John Elder	Hamilton, Mass	Feb 16 1816
Saw mill, for dye woods	John Elder	Hamilton, Mass	
Saw mill, elevating	Samuel Brewster	Middlesex, N. J	
Saw mill andless side chain car-	Samuel Diewster	Briddiesex, IV. J	00. 30, 1013
Saw mill, endless side chain, car-	James Murray	Baltimore, Md	Oct 11, 1836
riages for		New Garden Ia	Oct 21, 1030
Saw mill, floating	Nathan Compton James C. Ely	New York	Oct. 21, 1040
Saw mill gates, for curvilinear saw-	James C. Ely	New Tolk	00. 21, 10.0
	Temps Hemilton	New York	Tuly 9 1849
ing	James Hamilton William A. Needham.	Reimfield Mass	Sent 9 1835
Saw mill, gauge	Anson Blake	Lincoln Ky	Nov. 27 1807
Saw mill, and grist	Jos. Ennalls	New Market Md	April 10 1810
	John D. De Lacy	New York	Mar. 28, 1812
Saw mill, and grist	William Prim	Lebanon, Pa	Oct. 6, 1830
Saw mill, head block of	James King	Sapling Grove, Va	Feb. 20, 1841
Saw mill, head and tail block s of.	Thomas C. Theaker	Bucyrus, Ohio	Jan. 20, 1844
	Sol. R. Johnson	New York	Oct. 25, 1826
Saw mill, horse	George Harris	Philadelphia, Pa	
	George Trains	Turmanimus, Lg	May 3, 1810
Saw mill, (improvement on John-	Amen B Greber	Too Mage	Sept 98 1997
sons) Saw mill, locomotive, steam	Anson B. Graham	Lee, Mass	Sept. 28, 1827
min, rocontouve, buckin	William G. Berry and	Cincinnati, Ohio	Nov. 96 1896
•	J. 1. UBUUIII	Cardinanti, Unio	1104. 40, 1020

^{*} Reissued February 25, 1836.

INVENTIONS OR DISCOVERIES.	Patentees.	residence.	when issued.
Gill maskinsm	In Namean	Canadan N V	Oct. 1, 1830
Saw mill, machinery	Jos. Newton	Manallan Do	Sept. 26, 1835
Saw mill, machinery and wheels.	John Muir David Russell	The amen, Fa	Oct. 27, 1835
Saw mill, portable	David Russell	Producie N V	June 7, 1838
Saw mill, portable	Pearson Crosby James C. Mayo	Columbia Wa	July 29, 1841
Saw mill, portable	Dames C. Mayo	Columbia, va	Oct 7 1949
Saw mill, portable	Pearson Crosby	Predonia, N. I	Oct. 7, 1842
Saw mill, portable circular	George Page	Vincer De	July 16, 1841
Saw mill, propelling	Stephen R. Morrison.	Mingua, Fa	Nov. 02 1907
Saw mill, reciprocating	William Kendall, jr William Kendall	waterville, Maine	Dec 21 1997
Saw mill, reciprocating	William Kendall Pearson Crosby	waterville, Maine	Dec. 31, 1027
Saw mill, resawing boards			Nov. 3, 1841
Saw mill, save all	Josiah Hart and Lester		Tam 10 1010
a	rling	Cheshire, N. H	Jan. 10, 1012
Saw mill, saw	Levi Fisk	Schroon, N. 1	Aug. 17, 1033
Saw mill, saw	B. K. Barker	Johnsbury, N. 1	red. 3, 1536
Saw mill, sawing felloes and other	i		36 00 1040
round stuff	Isaac Sheetz	Tancytown, Md	May 20, 1842
Saw mill saw, mode of straining	R. Cook and S. E.		77 1 1040
		Saratoga Spr'gs, N. Y	Feb. 1, 1842
Saw mill, self-acting head and tail			
blocks of	Josiah J. Parker		June 13, 1844
Saw mill, self-adjusting log brace		Clearspring, Md	July 15, 1840
Saw mill, self-setting	Thos. McCarty	Elmira, N. Y	April 8, 1833
Saw mill, self-setting	Frederick Goodell and	ı	
	Thomas W. Harvey	New York	Nov. 3, 1841
Saw mill, self-setting head and tail	i		
block fort	Levi Heald	Bartlett, Ohio	June 3, 1843
Saw mills, self-setting	Benjamin Webb	Warren, N. Y	April 1, 1845
Saw mills, self-setting	Benjamin Webb Henry Quinn	New Alexandria, N.J.	June 25, 1845
Saw mill, self-tending	Edwin Moody and		
. •	Samuel Morrill	Andover, N. H	Feb. 8, 1840
Saw mill, setting the foot block of	D. V. Thomas	Richfield, N. Y	Sept. 17, 1842
Saw mill, setting logs on the car-	F.M. Stetson and John	Sangerfield & Brook-	•
riage of.	Eaton.	field, N. Y	July 15, 1844
Saw mill, setting saw logs, and			-
opening and shutting gates of	Nathaniel P. Stearns .	Linklaen, N. Y	Oct. 30, 1844
Saw mill, steam	Robert McKean	New Jersey	Mar. 24, 1798
Saw mill, strap	Othniel Stone		Oct. 6, 1834
Saw mill, sustaining logs in	Jeremiah Rohrer	Rohrersville, Md	May 29, 1841
Saw mill, tail blocks of	John Miller	Williamsport, Ohio.	Jan. 20, 1845
Saw mill, tail blocks of, for setting			1
the log	Charles D. Wright	Colchester, Ct	Sept. 30, 1842
Saw mill, timber, sawing with a		1	1
director compound bevel	James Hamilton	New York, N. Y	Nov. 21, 1843
Saw mill, travelling, cross-cut	Samuel K. Gore	Bradford co., Va	May 4, 1812
Saw mill, wind	James Hamilton Samuel K. Gore Jesse Springer	Cape May, N. J	Dec. 27, 1815
Saw mill, without saw gate	John C. Yates Robert S. Thomas	Columbus, Tenn	April 21, 1836
Saw, 10tary	Robert S. Thomas	Rockingham, N. C.	July 1, 1836
Saw, rotary, compound	Adam Stewart	Boston, Mass	Sept. 29, 1825
Saw, rotary, for cutting round ten-]	Sop. 20, 2020
ons	Charles Whitsitt	Connersville Ind	Sept. 25, 1839
Saw, of saw mill without a gate	Calvin Stigleman and		- Sopu, 2000
straining.	A. Seely		Dec 16 1844
Saw, strainer	Tunis V. Le Roy and	, 1210011, 2111111111111111	200. 20, 2011
Daw, Damier Comment	Abel Sanford	Newport, N. Y	Inly 25 1839
Saw, straightening	E. Rathburn and W.		July 20, 1001
www, strangittening	Tinker		Tules 1 1936
Saw trimmer	John R. Failing and	Jonneau, Omo	2, 2000
~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Robert G Nollie	Canajoharie, N. Y	April 97 1921
Saw trimmer :	Adam Clark, jr	Rem N V	Aug 94 1921
	Moses Cossend Acres	Delil, II. I	Aug. 24, 1001
Saw, two edged	D.II	Caroline, N. Y	Aug 21 1000
Saw, use of	Appen Field	Torico V	Man 6 1026
Saw, vertical, for fret work	F and C Doorba	Southburn C.	Annil 00, 1000
www, vertical, for fret Work	. E. and O. Doorne	; Soundbury, Ot	1 when 22, 1030
* Additional improvement, June	29, 1841. + <u>Addir</u>	ional improvement. Oct. 9	6, 1943.
*Additional improvement, June 39, 1841. † Additional improvement, Oct. 26, 1843.			

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mymytons or descoveries.	PATENTESS.	RESIDENCE.	WHEN ISSUED.
Saw, whip, application of the	Sam'l Barbour and N.		
,	U. Tompkins	New York	June 1, 1808
Saw, whip, driving	Joseph Coppinger	Frederick, Ga	May 19, 1810
Saw, wood	James Hamilton	Brookfield, Mass	July 31, 1809
Saw, wood	James Hamilton	New York	June 10, 1830
Sawing, cui vilinear bevel, machi-			
nery for	James Hamilton	New York, N. Y	April 15, 1843
Sawing boards	Oliver Judd, jr	London, Mass	May 1, 1810
Sawing boards	William Kendall	Waterville, Me	Jan. 16, 1826
Sawing boards	David Flagg, jr	Gardiner, Me	Jan. 19, 1830
Sawing boards	Ruel Jacobs	Wilton, N. Y	Feb. 22, 1831
Sawing and boring	Benj. F. Goodspeed &	New York	Annil 16 1994
Couring simples	D. H. Wiswell		April 16, 1834 July 18, 1832
Sawing circles	Thomas Armstrong	Anderson town ip, O Cazenovia, N. Y	Feb. 4, 1809
Sawing circular timber	James Linsey Benjamin Overman	Greensbury, N. C.	Sept. 15, 1826
Sawing boards in oars of rowing			20p.: 10, 10.0
boats.	Page, Rich'd Hough	Leyden, N. Y	May 26, 1842
Sawing boards, setting logs for	John Sheffield	Williamson, N. Y	April 26, 1842
Sawing furrow boards	Nathan H. Dearborn.	Conway, N. H	Dec. 28, 1831
Sawing irregular forms	Frederick W. Harris.	Lancaster, Mass	Sept. 27, 1845
Sawing logs in plank	Peter Tomlinson	Derby, Ct	April 3, 1829
Sawing machine	E. Old and P. Upham	Brookfield, Mass	Dec. 26, 1810
Sawing machine	Russell Canfield	Philadelphia, Pa	May 1, 1812
Sawing machine	John H. Morrison	Boscawen, N. H	Mar. 18, 1814
Sawing machine	Joseph Peevy	Levant, Me	May 14, 1836
Sawing machine, cross-cut	James W. Messenger.	Windham, Ohio	Dec. 21, 1831
Sawing machine, cross cutting	Henry Burger	Danville, Ind	Mar. 18, 1841
Sawing, mortising, turning, boring			36 . 07 1000
and grooving	Benj. Overman	Greenborough, N.C.	May 27, 1830
Sawing off logs, machine for	(Isaac D. Russell,	New York city	May 19, 1843
	Stephen Waterman,	Greenwich, Ct 5	Nov. 3, 1830
Sawing and planing	Thomas Bloomer	New York	1101. 3, 1000
Sawing and planing, saw and plane combined	Elijah Pratt	N. Granville, N. Y.	July 20, 1843
Sawing round bodies, for coopers	Isigan I latter	200 00000000000000000000000000000000000	July 20, 2010
ware	Samuel Newton	Hamilton co., Ohio.	Dec. 29, 1833
Sawing and splitting timber	John P. McDowell	Summit, Pa	Aug. 12, 1840
Sawing stuff circular	Thos. Kenderdine, jr.	Horsam, Pa	Aug. 12, 1640
Sawing timber	Daniel Crane	Clarkesburg, Va	April 15, 1813
Sawing timber	David Stem	Vanderbury co, Ind	
Sawing timber	Joshua Webb	Brooklyn, Ct	May 14, 1836
Sawing timber, concave, convex*.	Aaron Bard and Sime-		
	on Heywood	Lunenburg, Mass	July 8, 1834
Sawing timber, without a stub short		Bethlehem, Mass	Jan. 20, 1810
Sawing timber, without a stub short		Bethlehem, Mass	Feb. 5, 1810
Sawing timber, without a stub short	Wm. Underwood	Herkimer, N. Y	Sept. 6, 1810
Sawing timber by steam	Reuben Nicholls	New Orleans, La	July 21, 1826
Sawing trees	David Pierce	Poughkeepsie, N. Y.	April 23, 1829
Sawing trees	Samuel H. Hamilton.	New York	Dec. 7, 1837
Sawing various articles of carpen-	David Dawralas	Reading C	Oct. 25, 1810
ters' work	David Parmelee	Hanover, N. H	April 1, 1836
Sawing wood and book	Joseph Pinneo, jr Thomas Farrington	Boston, Mass	May 9, 1792
Sawing wood and bark Sawing wood in a circular manner	Roger Smith	Norwich, Ct	
Sawing wood for fuel, blocks for			
shingles, &c	Harlow Mitchell	Rutland, N. Y	June 14, 1834
Sawing wood by hand, horse, or			
water power.	A. Hurd	Fairfield co., Ct	May 22, 1832
Sawing wood and stone	Eh Tones	Alfred Mass	June 28, 1808
Scaffolds, raising and supporting.	Hy. N. Nichols	Middlebury, Vt	April 24, 1824
Scale boards, cutting	Hy. N. Nichols Jonathan Carrington.	Litchfield, Ct	April 27, 1812
Screws, cutting, wooden	R. Hanceck, sen., &		ľ
• • • • • • • • • • • • • • • • • • •	Edward W. Carr	Philadelphia, Pa	Mar. 1, 1811
	* Retorned Peb. 90, 1836.	•	
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INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	when meetd.
Screws, cutting, wooden	James Lynch	Pulaski, Tenn	Dec. 19, 1836
Screws, cutting, wooden	Stephen Treadwell	Weston, Ct	May 22, 1898
Screws, cutting, wooden	Joseph Peavy	Levant, Me	
Screws, cutting in wood	Samuel H. Wills	Abingdon, Va	
Scythe handles and other articles,		monigation, vanition	- Tulio 10, 1000
machine for making	James Embree	Marshalton, Pa	Aug. 7, 1844
Sythe snath, bending, moulds for		Sterling, Mass	Nov. 25, 1834
Seasoning wood, kiln for	James Ronaldson	Philadelphia, Pa	Feb. 2, 1818
Setting logs on block-head	Henry Mellish	Drewsville, N. H	Sept. 19, 1846
Shave, double operating	George B. Tally	Westbrook, N. C	
Shave, for getting out wooden		11 000000000000000000000000000000000000	p 10, 1010
hoops	Charles Stratton	Brattleborough, Vt.	Aug. 6, 1849
Shaving woods for various pur-	Charles Balancii	Dimession gar, 100	
poses	Benjamin Headly	Waterbury, Ct	June 14, 1814
Shaving and smoothing wood	Abm. Brownson	Lockport, N. Y	June 21, 1826
Shingles, blinds, slats, &c., sawing		Minot, Me	May 24, 1834
Shingles and clapboards, sawing		Sherburne, Mass	June 26, 1817
Shingles and clapboard, sawing	Thos. J. Flanders	Bradford, N. Y	Sept. 25, 1838
Shingle cutter	George W. Dana	Fredonia, N. Y	
Shingles, cutting	Joel N. Jehnson	Lowville, N. Y	Dec. 8, 1829
Shingles, cutting	George Wolf	Clear Creek tp. O	Nov. 29, 1844
Shingles, cutting	Ludram M. Parsons	Castleton, Vt	Mar. 12, 1839
Shingles, cutting	Justus Hinman, John		
	Thatcher, and Alon-		
	zo Palmer	Persia, N. Y	Mar. 25, 1839
Shingles, cutting	Miles R. Payne	Andersontown, Ind.	Oct. 30, 1840
Shingles, cutting*	Truman Wolcott	Stow, Mass	Jan. 20, 1841
Shingles, cutting	Lloyd White	Jefferson, Ind	Nov. 10, 1841
Shingles, cutting	Avery Kinney	Homer, N. Y	Feb. 12, 1842
Shingles, cutting	Hiram H. Herrick	Boston, Mass	Mar. 9, 1842
Shingles, cutting	Daniel M. Cummings.	East Lebanon, N. H	
Shingles, cutting	Alexander H. Hart		Sept. 17, 1842
Shingles, cutting	Sylvester Munson	Dillon, Ill	Oct. 7, 1842
Shingles, cutting	William Foster	Detroit, Michigan	Nov. 21, 1842
Shingles, cutting	Jason C. Gillett	Bloomfield. Mich	Dec. 20, 1843
Shingles, cutting	William Wood	Westport, Ot	Mar. 20, 1844
Shingles, cutting	Jonathan P. Bartley	Flanders, N. Y	May 25, 1844
Shingles, cutting	Tillot Cole	Kent, N. Y	Mar. 22, 1832
Shingles, cutting from steamed			
timber	Joseph S. Raymond		Aug. 15, 1837
Shingles, cutting from steamed,	Daniel C. McMillen,	Persia, Collins, and	
boiled, or other timber.	John B. Knoll, Tho-	Tully, N. Y	Sept. 10, 1839
	mas S. Henry and		
Ohimilan Januarian	Matthew Knoll.	5 . 1 . 77	D. 10 1000
Shingles, dressing	Robert & T. Nicholson		
Shingles, dressing		Montgomery co., Va	Mar. 16, 1512
Shingles, dressing	N. P. Hawk and J.	77. ' N 37	A
Chinalan Jasasian and annuality	Keyes	Union, N. Y	
Shingles, dressing and smoothing	George L. Day	Union, N. Y	1013 %2, 1931
Shingles, guages of machines for	IZDanah Taanan	Contan Ma	N 1007
Shingles and hading for hamala	Elkanah Leonard	Canton, Me	140V. 4, 1661
Shingles and heading for barrels, cutting from steamed or boiled		·	
		Shalliman NT W	T.J. 0 1986
Shingle machine.	Achael A Kommer		
Shingle machine	Ashael A. Kersey John Loomis	Conera N V	
Shingle machine.	Otis Paine		Dec. 24, 1812 June 18, 1813
Shingle machine.	William Earle		Dec. 28, 1822
Shingle machine	Amasa Andrews		Dec. 29, 1823
Shingle machine	James Sawyer		May 4, 1894
Shingle machine.	Paul Hawes	Lockport, N. Y	Mar. 30, 1827
Shingle machine, (improvement on			
Hawes's	George A. Hoard	Antwern, N. Y	Sent 90, 1997
* Antodated September 5, 1849.	i Beigmai Annii 9 14	  44   <del>  Debenis</del> Ass	De 1090
supposition 0, 1000	† Beissued April 3, 18	144. ‡ Reissued Oct.	<b>-</b> 0, 1000.

INVENTIONS OR DISCOVERISM.	PATENTEES.	Azoranoz.	WHEN ISSUED.
Shingle machine	Oliver Wheeler	Rochester, N. Y	Nov. 10, 1827
Shingle machine	Stillman Howe and		
	Charles Chaffin	Holden, Mass	May 22, 1828
Shingle machine	Danforth Wilder	Rome, N. Y	Aug. 25, 1828
Shingle machine	Joel Barnes	Cornwall Bridge, Ct	Oct. 10, 1829
Shingle machine		Holden, Mass	Nov. 10, 1829
Shingle machine	Parke Jones	James City co., Va	Nov. 12, 1828
Shingle machine	John Bush	Tippacanoe co., Ind.	Nov. 19, 1833
Shingle machine	Tunis J. Burhyte	Barton, N. Y	July 1, 1836
Shingle machine	A. S. Pelton Jonathan Bennet	Clinton, Conn Amenia, N. Y	Oct. 16, 1845 July 31, 1846
Shingle machine	William Thomas	Farm'gton, Mi. Ter.	
Shingles, manufacturing	Cheney Read	Worcester, Mass	Sept. 28, 1831
Shingles, metallic, for roofs	Chade Southwick and	***************************************	Cops. 20, 1001
		Palmyra, N. Y	April 8, 1835
Shingles, riving, planing and joint-			
Shingles, riving and dressing	Enoch R. Morrison	Pittsburg, Pa Baltimore, Md	Aug. 8, 1837 May 29, 1841
Shingles, sawed, planing and dress-	William S. George	i i	
ing	Oliver N. May	Windsor, N. Y	April 29, 1839
Shingles, sawing	Isaac Baker	Amherst, Mass Hubbardstown, Mass	May 8, 1803
Shingles, sawing	Willard Earle Salmon Fuller	Indiana Territory	Nov. 14, 1814
Shingles, sawing	Oliver Merrit	Berkhemstead, Ct	May 22, 1816
Shingles, sawing	Jonathan Culver		
Shingles, sawing	Ephraim Parker	Norfolk, N. Y Chester co., N. H	Dec. 17, 1826
Shingles, sawing	Willard Foster	Oswego, N. Y	June 25, 1826
Shingles, sawing	Oliver Goddard	Bridgetown, Me	
Shingles, sawing	Nathan Swift	Lebanon, Ct	June 27, 1827
Shingles, sawing	Richard McOmber	Galway, N. Y	
Shingles, sawing	Cheney Read	Western, Mass	
Shingles, sawing	Jonathan Hobbs, jr	Falmouth, Mass	Aug. 18, 1831
Shingles, sawing	Duncan McArthur and Thomas McKibbin.	Urbana, Ohio	Feb. 15, 183
Shingles, sawing	George Knode	Montgomery co., Va	Mar. 10, 183
Shingles, sawing	Daniel B. Moore	Stafford co., N. H	Aug. 15, 183
Shingles, sawing	Jonathan Hobbs, jr	Falmouth, Me	Sept. 14, 1836
Shingles, sawing	Apollos Wilbur	Burrelville, R. I	Mar. 25, 183
Shingles, sawing	Samuel Goss	Milford, N. H	
Shingles, sawing	Zebulon Sargent	ContoocookvilleN.H	
Shingles, sawing	Elnathan Samson	Plymouth, N. H.	Sept. 5, 1839
Shingles, sawing	Elnathan Samson Israel G. Johnson	Piermont, N. H	Jan. 10, 1843
Shingles, sawing	israel G. Johnson	Augusta, Me	Aug. 12, 184
chine for	George L. Day	Union, N. Y	Feb. 4, 184
Shingles from the stock, sawing	John W. Smith	Montgomery co., Va	April 25, 183
Shingles and scale board	Josiah Fairfield	Vassalborough, Me.	April 28, 1830
Shingles, shaving	Jacob Balcomb	Reading, N. Y	July 15, 180
Shingles, shaving	Abiel A. Cooley	Bolton, Ct	July 13, 1810
Shingles, shaving	D. Parker & J. Sanford	Sharon, Ct	May 30, 181
Shingles, shaving	Augustus R. Benjamin		
CIL:		Hunter, N. Y	
Shingles, shaving	Aaron H. Akin	Sparta, Pa	Nov. 4, 183
Shingles, shaving	B. Langdon	Troy, N. Y	Jan. 9, 183
Shingles, shaving		Disinfield N T	Tune 7 100
Shingles, shaving	Thorn, jr	Plainfield, N. J	fon 15 194
Shingles and shaving boards	Bill Jarvis	New York	July 8 170
Shingles, shaving and jointing	Samuel B. Chapman.	Burlington, N. J.	Mar. 15, 183
Shingles, shaving and jointingt Shingles, splitting and shaving Shingles, splitting	David French	Connecticut	July 25, 180
A	Ice Coppinger	Baltimore, Md	Oct. 31, 180
Shingles, splitting			
Shingles, splitting	Wm. Baylv	Nelson county. Ky	April 10. 181
Shingles, splitting	Wm. Bayly George Pack	Nelson county, Ky Peterborough, N. Y	April 10, 181 Nov. 11, 183
Shingles, splittingShingles and stavesShingles and staves, cuttingShingles and staves, dressing	Wm. Bayly George Pack Jer. McIlvain	Nelson county, Ky Peterborough, N. Y Chester, Pa	April 10, 181 Nov. 11, 183 April 1, 180

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INVENTIONS OR DISCOVERIES.	Patryters.	randence.	WHEN INSUED-
Thingles and stayed dressing	Daniel Newell	Saratoga, N. Y	July 26, 1810
Shingles and staves, dressing Shingles and staves, heading	David Flagg, jr	New York	Dec. 28, 1839
Shingles and staves, siding laths	Richard Hunt	Carroll, N. Y	Nov. 19, 1833
Shingles and staves, shaving	Wm. W. Wilkinson.	Wayne, Ohio	Sept. 26, 1835
Shingles, veneers, cutting	Robert A.Quatermass	Auburn, Mich	Aug. 17, 1843
Slitting boards	Ez. Olds	Brookfield, Mass	June 29, 1808
Slitting timber	William Barker	Kingston, Pa	Mar. 25, 1826
Slitting timber	R. Beale & M. Bucklin	Grafton, N. H	May 23, 1836
Spade and shovel handles	Harlow Risley	Glastonbury, Ct	May 1, 1829
Splints, cutting for manufacturing brooms.	Lyman Gleason	Le Roy, N. Y	Oct. 9, 1841
Splints, laths, making and splitting	Benjamin Beach	Clarkesville, Ohio	
splints, match cutting	John H. Stevens, as-	Characterine, Chief.	
opinius, makin cutumg	signee of Elisha Fitz-	New York	July 18, 1840
Splints, match manufacturing	gerald	new lork	July 10, 1010
Spinits, macin manufacturing	Thaddeus Hyatt	New York	Nov. 26, 1840
Splints, match cutting	John H. Stevens, as-	2.04 2014	2.0
opinio, macar cutang.	signee of Chauncey		
	E. Warner	New York, N. Y	July 2, 1843
Splitting timber	Daniel Wright	Franklin, N. Y	July 2, 1843 Jan. 15, 1818
Spoke shave	Ira L. Beckwith	Quincy, Mass	April 29, 1837
Square, carpenters'	Cyrus Haws	Bennington Vt	Dec. 15, 1819
Staves, apparatus for jointing	Horace Baker	McLean, N. Y	Dec. 9, 1846
Staves, barrel, dressing and joint-			
ing	John H. Lester	New London, Conn.	May 9, 1846
Staves for barrels, casks*	Samuel Learned	Ridgway, N. Y	May 30, 1842
Staves, for barrels, jointing	James Wyman	Boston, Mass	July 28, 1838
Staves, blind slits, cutting	Hardin Branch	New York, N. Y	May 3, 1839
Staves, crossing and chiming	Charles F. Beverly	Salem, Ohio	May 3, 1839 Oct. 16, 1840
Staves, cutting	Jonathan Burt and Erasmus Smith	Sullivan, N. Y	June 29, 1839
Staves, cutting	Isaac Hosmer and Wil-	,	
, ,	liam P. L. Badger	Concord, Mass	Sept. 2, 1840
Staves, cutting	Cephas Manning	Acton, Mass	Sept. 10, 1840
Staves, cutting	Oliver Sheldon	NewMarlboro',Mass	Sept. 10, 1840
Staves, cutting	Cephas Manning	Acton, Mass	Sept. 14, 1840
Staves, cutting	Cephas Manning	Acton, Mass	April 10, 1841
Staves, cutting, for barrels	Thomas Peck	Lenox, N. Y	Nov. 20, 1837
Staves, cutting, shaving, and joint- ing	Ebenezer Gregg	Derry, N. H	Dec. 27, 1833
Staves, cutting, from steamed tim-			,
ber	George Pack	Sullivan, N. Y	Oct. 10, 1835
	Merrick	Fallstown, Pa	Nov. 12, 1845
Staves, cylindrical, for dressing	John R. Averill	Manchester, N. Y.	Dec. 29, 1824
Staves, double, and parallel jointer		Philadelphia, Pa	Oct. 1, 1816
Staves, dressing	Levi Benton	Hanover, N.Y	July 12, 1828
Staves, dressing	Charles B. Goodrich	Rutland, Mass	Feb. 3, 1829
Staves, dressing	Charles B. Goodrich	Rutland, Mass	May 10, 1830
Staves, dressing	William Thomas	Pomfret, N. Y	Oct. 7, 1830
Staves, dressing	John G. Conser	Rebersburg, Pa	Jan. 31, 1831
Staves, dressing	Lemuel Read and Al-	<u>.</u>	·
	fred Willoughby	Rochester, N.Y	Sept. 16, 1833
Staves, dressing	Ashahel Fairchild	Queensbury, N. Y	Dec. 17, 1834
Staves, dressing	Joseph Sweet	Boro' of Muncey, Pa.	Oct. 28, 1835
Staves, dressing, for barrels	Solomon Crumber	Puckhorn, Pa	Mar. 18, 1834
Staves, dressing, heading, and joint-			
ing	John G. Tackles	Pomfret, N.Y	July 20, 1831
Staves, dressing and jointing	Hcrvey Law	Wilmington, N. C.	July 15, 1840-
Staves, dressing, revolving	Charles B. Goodrich	Rutland, Mass	Feb. 4, 1829
Staves and heads for barrels	Barnabas Langdor and		
J	William Mowry	Washington co., N.Y	June 20, 1811

^{*} Antedated Movember 30, 1841.

[†] Roissued December 26, 1849.

Staves, jointing   George Ely   Clarence, N. Y   April 14, 183 Staves, jointing   Philip Cornell   Bridgewater, Mass.   April 11, 183 Staves, jointing   Cyrus McGregory   Newport, N. H.   Aug. 26, 183 Staves, saw   Harvey Holmes   NewMarlboro', Mass   Jan. 21, 183 Staves, sawing   Charles M. Keller   Washington, D. C.   June 30, 183 Staves, sawing and jointing   William Bell   Lexington, Ky   Sept. 22, 183 Staves, sawing and jointing   William Bell   Lexington, Ky   Sept. 22, 183 Staves, sawing   Marrey Holmes   NewMarlboro', Mass   Sept. 22, 183 Staves, sawing and jointing   William Laney and Solomon Merrick   Springfield, Mass   Sept. 22, 183 Staves, sawing   Harvey Holmes   NewMarlboro', Mass   Sept. 22, 183 Staves, sawing   Harvey Holmes   NewMarlboro', Mass   Sept. 22, 183 Staves, sawing   Harvey Holmes   NewMarlboro', Mass   Sept. 22, 183 Staves, sawing   Harvey Holmes   NewMarlboro', Mass   Sept. 23, 183 Staves, sawing   Harvey Holmes   NewMarlboro', Mass   Sept. 23, 183 Staves, sawing   Harvey Holmes   NewMarlboro', Mass   Sept. 23, 183 Staves, sawing   Staves, sawing on dinting   Staves, sawing on dinting   Staves, sawing on to loring   Staves, sawing on to loring   Staves, sawing on to loring   Staves, sawing on rounding   Philip Cornell   Newport, N. H.   July 2, 183 Staves, sawing or rounding   Dainel Toms   Philip Cornell   Newport, N. H.   July 2, 183 Staves and hoops, splitting   Staves for truss hoops   Amory Amsden   Easford and E. John Son   Staves, sawing or or mand   Naramor   Staves and hoops, splitting   Staves for truss hoops   Amory Amsden   Easford and E. John Son   Staves for truss hoops   Amory Amsden   Staves for truss hoops   Staves for truss hoops   Staves for truss h	INVENTIONS OR DISCOVERIES.	Patenters.	REMDENCE.	WHEN ISSUED.
Staves, jointing. Staves, join	Staves, heading and dressing	Abner Sterns, ir	Scarhticoke, N. Y.	Mar. 22, 1836
Staves, jointing. Staves, join	Staves and shingles, heading of	John Everhart, Jacob Pearson, John Mor-		
Staves, jointing.  Philip Cornell.  Staves, sawing.  Staves, saw.  Harry Holmes.  Staves, saw.  Harry Holmes.  Staves, sawing.  Staves, sawing and jointing.  Staves, sawing and jointing.  Staves, sawing and jointing.  Staves, sawing and jointing.  Staves, sawing.  Staves, sawing, for barrels.  Staves, sawing, for barre			Warme Ohio	Ont 6 1925
Slaves, jointing.   George Ely.   Clarence, N. Y.   April 14, 183 Slaves, jointing.   Staves, jointing.   Cyrus McGregory   Slaves, jointing.   Cyrus McGregory   Slaves, saw   Slaves, saw   Slaves, saw   Harrey Holmes.   Slaves, saw   Harrey Holmes.   NewMarlboro', Mass   Slaves, saw   Harrey Holmes.   NewMarlboro', Mass   Slaves, sawing.   Charles M. Keller   Wahington, D. C.   Slaves, sawing and jointing.   William Bell   Lexington, Ky   Spet 22, 183 Slaves, sawing and jointing.   William Laney and Solostaves, sawing and jointing.   William Laney and Solostaves, sawing and jointing.   William Laney and Solostaves, sawing.   Royal E. House.   Choconut, Pa.   Aug. 12, 183 Slaves, sawing.   Royal E. House.   Choconut, Pa.   Aug. 12, 183 Slaves, sawing in pointing.   Slaves, sawing, for barrels.	Staves, jointing			May 20, 1830
Staves, jointing.  Staves, jointing.  Staves, saw  Staves, saw  Harvey Holmes. Staves, sawing.  Daniel Toms. Staves, sawing and jointing. Staves, sawing and jointing. Staves, sawing and jointing. Staves, sawing and jointing. Staves, sawing. Staves, sawing and jointing. Staves, sawing. Staves, sawi		George Ely	Clarence, N. Y	April 14, 1831
Staves, saw Sumer King Chittenango, N. Y. Aug. 29, 183 Staves, saw Harvey Holmes Staves, sawing. Charles M. Keller Washington, D. C. J. Staves, sawing and jointing William Bell Lexington, D. C. J. Staves, sawing and jointing William Bell Lexington, D. C. J. Staves, sawing and jointing William Bell Lexington, D. C. J. Staves, sawing and jointing William Bell Lexington, D. C. J. Staves, sawing and jointing William Bell Lexington, D. C. J. Staves, sawing and jointing Staves, sawing and jointing Staves, sawing and jointing. Staves, sawing Staves, sawing Staves, sawing Staves, sawing and jointing. Staves, sawing for barrels. Staves, sawing for barrels. Staves, sawing, for barrels. Staves, sawing, for barrels. Staves, sawing, for barrels. Staves, sawing or rounding. Staves, sawing or rounding. Philip Cornell Staves, sawing or rounding. Daniel Toms. Staves, sawing or rounding. Staves, sawing or rounding. Daniel Toms. Staves, sawing or rounding. Staves, sawing or rounding. Daniel Toms. Staves and shingles, shaving and heading. Staves for truss hoops. Tenons, cutting. William Leving Staves, sawing? Charles Thompson. Livermore, Mass. Sept. 25, 183 Staves, sawing or round. Mallon Gregg. Daniel Morth and H. Naramor. Caledonia, N. Y. July 27, 189 Staves, sawing or round. Mallon Gregg. Philadelphia, Pa. Dec. 10, 184 Tenoning machine. Henry Mellish. Mellish. May 25, 184 Tenoning and mortising machine. Henry Mellish. Mellish. May 25, 184 Tenoning and mortising machine. Timber, boring. Timber, bending. See Class 7. Timber, boring. Timber, bending. Charles W. Brown. Samuel Shepherd and Daniels. Township, grooving, and heading boards. Daniel Morth Hutton. Samuel Shepherd and Daniels. Township, grooving, and			Bridgewater, Mass	Aug. 3, 1831
Staves, saw Harvey Holmes Staves, sawing Mare, sawing Charles M Keller Walnington, D. C. June 30, 183 Staves, sawing and jointing Nathaniel Moor Staves, sawing and jointing Nathaniel Moor William Bell Staves, sawing and jointing Nathaniel Moor Staves, sawing and jointing Nathaniel Moor William Laneyand Solomon Merrick Harvey Holmes Royal E. House Ro			Newport, N. H	
Staves, sawing.  Staves, sawing.  Staves, sawing.  Staves, sawing.  Staves, sawing.  Staves, sawing.  Staves, sawing and jointing.  Staves, sawing and jointing.  Staves, sawing.  Staves, sawing		Sumner King	Chittenango, N. Y	Aug. 29, 1833
Staves, sawing			NewMarlboro', Mass	
Staves, sawing. Charles M. Keller. Washington, D. C., June 30, 183 Staves, sawing and jointing. William Bell. Lexington, Ky. Sept. 22, 183 Staves, sawing and jointing. Staves, sawing and jointing. Harvey Holmes. Staves, sawing. Royal E. House. Choconut, Pa. Aug. 12, 183 Staves, sawing bilged, for barrels. Staves, sawing and jointing. Staves, sawing and jointing. Staves, sawing, for barrels. Staves, sawing, jointing, and smoothing. Staves, sawing, iointing, and staves, sawing, (improvement on Toms'.) Staves, sawing or rounding. Staves, shaving and listing. Daniel Toms. Abburn, N. Y. July 2, 163 Staves, sawing, (improvement on Toms'.) Staves and shingles, shaving and heading. Staves, shaving and listing. Daniel Toms. Amburn, N. Y. July 8, 183 Staves and hoops, splitting. Ziba Bisbee. Staves for trues hoops. Amory Amaden. Daniel North and H. Naramor. Staves for trues hoops. Amory Amaden. Daniel North and H. Staves and hoops, splitting. Staves for trues hoops. Amory Amaden. Daniel North and H. Staves for trues hoops. Amory Amaden. Daniel North and H. Staves for trues hoops. Amory Amaden. Daniel North and H. Staves for trues hoops. Amory Amaden. Daniel North and H. Staves for trues hoops. Amory Amaden. Daniel North and H. Staves for trues hoops. Amory Amaden. Daniel North and H. Staves for trues hoops. Amory Amaden. Daniel North and H. Harn. Tenons, cutting. Chambersburg, Pa. Charles Thompson. Charles Thompson. Charles Thompson. Charles Thompson. Charles Thompson. Daniel North Staves, Sawing. Charles Thompson. Cha		Daniel Toma	Auburn, N. Y.	
Staves, sawing and jointing.  Staves, sawing.  Staves, sawing.  Staves, sawing.  Staves, sawing and jointing.  Staves, sawing and jointing.  Staves, sawing and jointing.  Staves, sawing bliged, for barrels.  Staves, sawing and jointing.  Staves, sawing bliged, for barrels.  Staves, sawing, forbarrels.  Staves, sa				June 30, 1836
Staves, sawing and jointing  Staves, sawing and jointing  Staves, sawing  Staves, sawing  Staves, sawing  Staves, sawing and jointing  Staves, sawing for barrels  Staves, sawing, for barrels  Sta	Staves, sawing	William Bell	Lexington, Ky	Sept. 22, 1838
Staves, sawing		William Laney and So-		June 19, 1838
Staves, sawing	Staves serving			
Staves, sawing bilged, for barrels. Staves, sawing and jointing. Staves, sawing for barrels. Staves, sawing, jointing, and smoothing. Staves, sawing or rounding. Staves, sawing and listing. Daniel Toms. Philip Cornell Staves, sawing and listing. Daniel North and H. Naramor. Staves, saving and listing. Daniel North and H. Naramor. Staves, saving and listing. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel North and H. Naramor. Cayuga county, N. Y. Daniel Toms. Meedsport, N. Y. Daniel Toms. Waynesville, Ohio. E. Bridgewater, Mass. July 27, 182 Ebridge Transhamers, Market, M. Caledonia, N. Y. Nov. 26, 182 Hellis, N. H. Naramor. Cayuga county, N. Y. Daniel Toms. Abuum, N. Y. Daniel Toms. Meedsport, N. Y. Daniel Toms. Cayuga county, N. Y. Daniel Toms. Daniel Toms. Daniel Toms. Daniel Toms. Daniel Toms. Habitand Auburn, N. Y. Daniel Toms. Da				
Staves, sawing and jointing.  Staves, sawing and jointing.  Staves, sawing and jointing.  Staves, sawing, for barrels.  Staves, sawing, jointing, and smoothing.  Staves, sawing or rounding.  Staves, sawing or rounding.  Staves, sawing improvement on Toms.  Staves and shingles, shaving and heading boards.  Tenons, cutting.  Tenons, cutting.  Tenons, cutting.  Tenons, cutting.  Tenons, cutting.  Tenoning machine.  Timber, bending.  Tonguing, grooving, and heading boards.  Tonguing, grooving, and heading boards.  Tools.—See Class 2.  Tonguing, grooving, and heading boards.  Tools.—See Class 2.  Tonguing, grooving, and heading boards.  Tools.—See Class 2.  Tonguing and grooying machine.  Tools used in the manufacture of the form of the product of the	Staves, sawing	Hart Pepper	Southwick, Mass	Sept. 3, 1839
Staves, sawing, for barrels	Staves, sawing bilged, for barrels.		Michigan City, Ind.	Nov. 25, 1841
Staves, sawing, jointing, and smoothing.  Staves, sawing in rounding.  Staves, sawing or rounding.  Staves and shingles, shaving and heading boards.  Tenons, cutting.  Daniel Toms.  Daniel Toms.  Stavbes, Sawing or rounding.  Daniel Toms.  Auburn, N. Y.  July 8, 183  Auburn, N. Y.  Swibara, Auburn, N. Y.  June 12, 183  Cayuga county,N. Y.  Sawynesville, Ohio.  Shoridand E. John E. Bridgewater, Mass June 5, 183  Bridgewater, Mass June 12, 183  Waynesville, Ohio.  Shord and E. Bridgewater, Mass June 12, 183  Septing water, Mass June 12, 183  Cayuga county, N. Y.  Sawynesville, Ohio.  Shoridand E. Shridand E. Honnya June 12, 183  Cayuga county, N. Y.  Sawynesville, Ohio.  Shord and E. Shridand E. Honnya June 12, 183  Cayuga county, N. Y.  Sawynesville, Ohio.  Shord and E. Shridand E. Honnya June 12, 183  Cayuga county, N. Y.  Sarynesville, Ohio.  Shord and E. Shridand E. Honnya June 12, 183  Cayuga county, N. Y.  Sarynesville, Ohio.  Shord and E. Shridand E. Honnya June 12, 183  Livermore, Mass.  April 28, 184  Cayuga county, N. Y.  Sarynesville, Ohio.  Shord and E. Shridand E. Honnya June 12, 183  Cayuga county, N. Y.  Sarynesville, Ohio.  Shord and E. Shridand E. Honnya June 12, 183  Cayuga county, N. Y.  Sarynesville, Ohio.  Shord and E. Shridand E. Honnya June 12, 183  Cayuga county, N. Y.  Sarynesville, Ohio.  Shord and E. Shridand E. Honnya June 12, 183  Cayuga county, N. Y.  Cayuga coun			Newport, N. H	July 2, 1836
Staves, sawing or rounding Staves, sawing or rounding Staves, sawing or rounding Staves, sawing (improvement on Toms'.) Staves, shaving and listing Staves and shingles, shaving and heading Staves and shoops, splitting Staves and hoops, splitting Staves for truss hoops Tenons, cutting Tenons, cutting Tenons, cutting Tenons, cutting round Tenons, cutting round Tenons, cutting round Tenoning machine Tenoning machine Tenoning machine Timber, bending Timber, hewing, dubbing Timber, hewing, dubbing Timber, hewing, grooving, &c., boards, side cutter head Tonguing, grooving, and heading boards Tools used in the manufacture of Tools used in	Staves, sawing, for barrels		Brums, N. Y	Mar. 3, 1837
Staves, sawing, (improvement on Toms'.)  Staves, shaving and listing	smoothing	Daniel Toms	Auburn, N. Y	July 8, 1830
Staves and shingles, shaving and heading	Staves, sawing or rounding Staves, sawing, (improvement on	Jesse C. Smith and		
Staves and shingles, shaving and heading.  Staves and hoops, splitting	~	Daniel North and H.		
Staves and hoops, splitting				
Staves for truss hoops				
Tenons, cutting. Tenons, cutting, by revolving cylinders. Tenons, cutting round. Tenons, cutting round. Tenons, sawing. Tenons, sawing. Tenons, sawing. Tenons, sawing. Tenoning machine. Tenoning machine. Tenoning machine. Tenoning and mortising machine. Tenoning and mortising machine. Tenoning machine. Tenoning machine. Tenoning and mortising machine. Timber, bending. Tenoning. Timber, boring. Timber, fire wood, &c., cross cutting. Timber, fire wood, &c., cross cutting. Tools.—See Class 2. Tools.—See Class 2. Tonguing, grooving, and heading boards.† Tonguing, grooving, and heading boards. Tonguing and grooving machine. Tools used in the manufacture of	Staves for truss hoops	Amory Amaden		July 27, 1827
Tenons, cutting, by revolving cylinders	_			April 28, 1810
linders		William H. Harn	Chambersburg, Pa	Oct. 26, 1842
Tenons, cutting round		Josiah Fav	Hollis, N. H	Aug. 29, 1831
Tenoning machine	Tenons, cutting round		Philadelphia, Pa	Dec. 10, 1846
Tenoning machine	Tenons, sawing			
Timber, bending.—See Class 7. Timber, fire wood, &c., cross cutting	Tenoning machine	James Biggs		
Timber, bending.—See Class 7. Timber, boring	Tenoning and mortising machine.	Elbridge Lyman		May 25, 1844
Timber, boring	mini a serie	ley	Litchfield, Conn	Mar. 20, 1822
Thomas J. Marsh  Timber, hewing, dubbing.—See Class 7.  Tools.—See Class 2.  Tonguing, grooving, &c., boards, side cutter head  Tonguing, grooving, and heading boards.†  Tonguing, grooving, and heading boards.  Tonguing, grooving, and heading boards.  Tonguing and grooving machine  Tools used in the manufacture of	Timber, boring	Riley Smith	Towanda, Pa	Feb. 10, 1843
Tonguing, grooving, &c., boards, side cutter head	ung	Thomas J. Marsh	Liberty, Indiana	Sept. 28, 1843
mide cutter head	Tools.—See Class 2.		•	
boards.†  D. Baldwin Nashua, N. H Feb. 21, 183  D. Baldwin Nashua, N. H Feb. 21, 183  boards Frederick Fredley Sugar Valley, Pa Sept. 15, 183  Tonguing and grooving machine Charles W. Brown Boston, Mass Aug. 14, 184  Tools used in the manufacture of	_ side cutter head	Walter M. Hutton	Troy, N. Y	Oct. 26, 1838
boards	boards.†	D. Baldwin	Nashua, N. H	Feb. 21, 1838
Tonguing and grooving machine Charles W. Brown Boston, Mass Aug. 14, 184 Tools used in the manufacture of	boards heading	Frederick Fredley	Sugar Valley, Pa	Sept. 15, 1838
parrels William G. Burg MountFleasant, N. Y.   Oct. 12, 183	Tonguing and grooving machine  Tools used in the manufacture of	Charles W. Brown	Boston, Mass	Aug. 14, 1844
* Reissued December 6, 1888, and January 29, 1834, † Antedated August 21, 1837.				

INVENTIONS OR DISCOVERIES.	PATEWTEES.	RESIDENCE.	WHEN USUED
Tubs, cutting wood for sides of	Jer. Bailey	Philadelphia, Pa	April 7, 1827
Tubs, manufacturing	Palmer Phillips	Busti, N. Y	May 20, 1831
Tubs, pails	Robert U. Richards	Winchester, Conn	Feb. 19, 1824
Veneering	Augustus McBurth, assignor to T. R. Hib-	New York, N. Y	July 28, 1846
Veneers, cutting	bard Caleb B. Burnap	Belfast, Maine	May 1, 1825
Veneers, cutting	James Hamilton	City of New York	Nov. 10, 1836
Veneers, cutting	Joseph Skinner	Stockbridge, Mass	Sept. 21, 1837
Veneers, cutting	William R. Greenleaf		
,,	and Alonzo Cole	Gerry, N. Y	Feb. 18, 1846
Veneers, cutting	John Dresser	Stockbridge, Mass	Sept. 3, 1840
Veneers, cutting	William Foster	New York	Sept. 1, 1843
Veneers, cutting and straightening		New York	Dec. 4, 1843
Venecrs, cutting saw for	R. B. Richardson	Philadelphia, Pa	Oct. 6, 1824
Veneers, cutting from the circum-		• ,	Ĭ
_ ference of a log	John Humphrey	Harrington, N. J	Oct. 26, 1842
Veneering curved surfaces	William Iba, assignee		•
	of Casper Kittinger.	East Greenville, O.	Nov. 21, 1842
Veneers, glueing, on columns	Benjamin Hinckley	Fayette, Maine	April 27, 1830
Veneers, laying on ogee and other			
mouldings	John Soule	New Bedford, Mass.	Aug. 31, 1836
Veneers, ploughing	William Stillman	Rhode Island	Mar. 16, 1801
Veneer saw frame	Benjamin Brehore	Milton, Mass	May 22, 1828
Veneers, sawing	Adam Stewart	Baltimore, Md	July 5, 1817
Veneers, sawing	John P. Allen	Manchester, Mass	Dec. 7, 1826
Veneers, sawing	Amos F. Smith	Salem, Mass	Sept. 10, 1829
Veneers, sawing	Caleb B. Burnap	New York	Dec. 14, 1830
Veneers, sawing, and pannel cut-		Dalfact Mains	C 10 1000
ting. Veneers, shaving	Quimby	Belfast, Maine	Sept. 12, 1829
Veneers, straight or curved, lay-	Sylvanus Bonnel	New Jersey	Feb. 28, 1816
ing on	Casper Kittinger	Massillon, Ohio	Mar. 14, 1840
Veneers and tenons, slitting	John McClintic	Chambersburg, Pa	April 21, 1829
Vice, standing or bench	Lawren M. Peck	Philadelphia, Pa	July 18, 1844
Ware, wooden	L. Z. Parke	Windham, N. Y	July 14, 1825
Ware, wooden	Elisha Briggs	Windham, N. Y Perry, N. Y	July 30, 1827
Ware, wooden, without staves	John Patridge	Zanesville, Ohio	April 16, 1831
Washboard	Stephen Rust	Manlius, N. Y	Feb. 9, 1833
Washboard, fluting and counter fluting	Edward Loud	Winchindon, Mass	Mar. 8, 1834
Water tables for doors	Nathaniel Briggs	Windham, N. Y	June 17, 1809
Weather strips to bottom of doors	Isaac D. Brower	City of New York	July 29, 1837
Wood, manufacturing, to be used as a substitute for curled hair in			
stuffing beds	William Baker	Utica, N. Y	May 90 1849
Wood, shaving	William Rose	Philadelphia Pa	Sent. 3 1844

#### CLASS No. XV.

## STONE & CLAY MANUFACTURES,

Including Machines for Pottery, Glass-making, Brick-making, Dressing and Preparing Stone, Cements, and other Building Materials.

### LIST OF PATENTS.

CLASS XV.—STONE AND CLAY MANUFACTURES, including Machines for Pottery, Glass-making, Brick-making, Dressing and Preparing Stone, Cements, and other Building Materials.

INVENTIONS OR DISCOVERIES.	Patentees.	RESIDENCE.	when issued.
Brick, air conducting, for stoves	Ephraim Treadwell	Essex co., Mass	Sept. 12, 1816
Brick, burning	Nath'l Adams & Aaron		
	Noyes	Newbury, Ky	Dec. 28, 1829
Brick, burning*	Joel W. Andrews	Norristown, Pa	Mar. 21, 1843
Brick, cornice	Thomas K. Beale	Alexandria, D. C	May 28, 1814
Brick, fire, machine	Ebenezer Jenks	Canaan, Ct	April 18, 1807
Brick, fire-proof	Tim. Caldwell	Philadelphia, Pa	July 21, 1823
Brick, fire-proof	Richard W. Smith	Baltimore, Md	Sept. 27, 1825
Brick, fire and water-proof	Thos. S. Sherman	Scriba, N. Y	Dec. 30, 1833
Brick, frame, portable, for raising		Rochester, N. Y	July 21, 1827
Brick machine	Richard Mansfield Ezra Miller	Connecticut	Oct. 28, 1800 July 17, 1802
Brick machine	John F. Gould		
Brick machine	Asa Ross	Newburyport, Mass. Cazenovia, N. Y	Mar. 1, 1806 Sept. 21, 1808
Brick machine	James B. Harris	Philadelphia, Pa	Aug. 21, 1810
Brick machine	James Gregg	New Hampshire	May 7, 1811
Brick machine	James McDonald	New York	April 1, 1812
Brick machine	John Menefee	Landry Parish, La	Aug. 7, 1823
Brick machine	Seth Lewis	Louisiana	Feb. 11, 1824
Brick machine	James Lee	Ogden, N. Y	Mar. 11, 1824
Brick machine	James Lee & J. Ring.	Ogden, N. Y	June 11, 1825
Brick machine, (improvement on	Junios 200 as 51 1011.g.	26.0, 2 2	11, 1020
Lee's)	Tim. P. Kneeland	Ogden, N. Y	June 21, 1825
Brick machine	David Rising	Atchester, Vt	Mår. 21, 1827
Brick machine	David Rising	Colchester, N. Y	Jan. 29, 1828
Brick machine	David Flagg	Gardiner, Me	Mar. 19, 1828
Brick machine	Eben Duty & D. W.	,,	20, 20,00
	Duty	Painesville, Ohio	June 7, 1828
Brick machine, (improvement on		•	, 2000
McDonald's.)	McQueen, jr	New York	Nov. 19, 1828
Brick machine	John S. Hanna	Mercer, Pa	Nov. 23, 1829
Brick machinet	Nathaniel Adams	Cornwall, N. Y	June 22, 1830
Brick machine	J. M. Bannister	Phelps, N. Y	June 19, 1835
Brick machine	George W. Gilbert	Pittsburg, Pa	Aug. 15, 1835
Brick machine	John Moffat	Buffalo, N. Y	Mar. 8, 1836
Brick machine	Nathaniel Adams	Newburgh, N. Y	April 13, 1836
Brick machine	Gooding Halloway	Montgomery co., Pa.	
Brick machine	Colvin Waterman	Bath, Me	July 2, 1836
Brick machine	Gaylord V. Harper	Franklinville, N. Y.	Oct. 23, 1837
Brick machine	Lee Montgomery	Tunnel, Md	July 8, 1843
Brick machine, moulding	Joseph P. Owen	Upper Alton, Ill	April 10, 1843
Brick machine	Thomas Hartley	Pittsburg, Pa	
Brick, machine for making	Samuel Lowery	Philadelphia, Pa	
Brick machine	Joel L. Ransom	Millport, N. Y	April 4, 1846
Brick, machine for making	John Simpson	Decatur, Ga	April 25, 1846
Brick, making	David Ridgeway	Philadelphia, Pa	Mar. 7, 1792
Brick, making	Christopher Colles	New York	Jan. 26, 1793
Brick, making	Apollos Kinsley	New York	Feb. 1, 1793
Brick, making	William Mitchell	Henrico, Va Springhill, Va	June 24, 1816
Brick, making	William Mitchell	Politimore Md	May 28, 1817
Brick, making	Adam Stewart	Dalumore, Ma	Wbtn 9, 1818
Brick, making	cent betanap	Newbury, N. Y	may 11, 1021

^{*} Additi onal improvement, April 4, 1846.

Reissred Oct. 14, 1834.

INVENTIONS OR DISCOVERIES.	PAVENTEES.	RESIDENCE.	MHEN MICHED
Brick, making	Richard Roberts	Berlin towns'p, Ohio	Mar. 2, 1838
Brick, making	Jesse Reeder	Cincinnati, Ohio	Feb. 15, 1838
Brick, making	Samuel C. Brusster	Kensington dist., Pa.	April 14, 1838
Brick, making	J. Parsons Owen	Cincinneti, Ohio	July 26, 1845
Brick, making, and clay, grinding	William Mitchell	Richmond, Va	Mar. 26, 1817
Brick, making, and drying	James Hodges	Fairplay, S. C	June 3, 1837
Brick, making, and pan tile	Samuel Bronwer	Massachusetts	Aug. 17, 1793
Brick, mixing earth for	Benj. K. Hill	Richmond co., Ga	Feb. 17, 1827
Brick, and mortar	Amos Parker	Sweden, Me	Mar. 5, 1830
Brick, and mortar, alternate lift	Benj. Dearborn	Boston, Mass	June 20, 1816
Brick, mould	Benj. H. Brown	Alexandria, D. C	Oct. 23, 1837
Brick, moulding	Honore Mane	Point Coupee, La	Nov. 23, 1822
Brick, moulding	Daniel Watson	Fayetteville, Me	May 6, 1896
Brick, moulding	Ezra Fisk	Fayette, Me	June 9, 1896
Brick, moulding	David Fox	Ashtabula, Ohio	Aug. 15, 1831
Brick, moulding	John Drummond	Whitestown, N. Y.	Mar. 6, 1832
Brick, moulding		York, Pa	Dec. 2, 1834
Brick, moulding		Mount Vernon, Ohio	D 00 1004
Brick, moulding	Robert Rankin	Frankfort, Me	Dec. 24, 1834
Brick, moulding	James Coppuck	Louisville, Ky	July 1, 1836
Brick, moulding	Loomis E. Ransom	Millport, N. Y	Jan. 9, 1838
Brick, moulding	John Bolton	Saratoga Sp'gs, N.Y.	Aug. 23, 1838
Brick, moulding	John Booth and Wm.	Saturdar of go, 11.1.	22.00
seron, mounding	H. Stevenson	Columbus, Miss	Jan. 6, 1844
Brick, moulding	Wm. T. Peters, ex'or	Columbus, Italias	Jul. 0, 1011
and	of Ithiel Town	New Haven, Ct	Sept. 27, 1844
Brick, moulding and drying	Charles Vassar	Poughkeepsie, N. Y.	Nov. 1, 1830
Brick, moulding and pressing	John M. Brookings	Wiscasset, Me	June 23, 1826
Brick, moulding and pressing	James McDonald	New York	April 24, 1827
Brick, moulding and pressing	Daniel Barnford	Deerfield, N. Y	April 28, 1832
Brick, moulding and pressing	David Phillips	Natchez, Miss	June 23, 1832
Brick, moulding and pressing	Cyrus Chaney	Prospect, Me	Sept. 11, 1834
Brick, moulding and pressing	Nathaniel Adams	Cornwall, N. Y	Sept. 8, 1837
Brick, moulding and pressing	Henry Waterman	Bath, Me	Nov. 4, 1837
Brick, moulding and pressing	S. Watterman and C.	2000, 2000, 000, 000, 000, 000, 000, 00	
,, francisco	Learned	Charleston, S. C	April 14, 1838
Brick, moulding, and tempering		·	•
clay	John C. Porter	Powhatan co., Va	Dec. 29, 1830
Brick, preparing mortar for	Oran W. Seely	Williamson, N. Y.	July 20, 1831
Brick press	Benjamin Porter	Salem, Mass	May 18, 1814
Brick press	Benjamin Rolfe	During, N. H	April 30, 1822
Brick press	Samuel Briggs	Salem, Mass	Jan. 11, 1823
Brick press	Briggs R. Reid	Danvers, Mass	May 29, 1823
Brick press	David Flagg, jr	Gardiner, Me	Dec. 13, 1824
Brick press	Mark Twitchell	Gray, Me	Sept. 24, 1825
Brick press		TT 15 11 90	
	Thomas Norcross	Hallowell, Me	
Brick press	Julius Willard	Baltimore, Md	
Brick pressBrick press	Julius Willard	Baltimore, Md	Dec. 31, 1825 May 2, 1826
Brick press Brick press Brick press	Julius Willard Ephraim Mayo Alfred B. Crossman	Baltimore, Md Hallowell, Me Huntington, N. Y	Dec. 31, 1825 May 2, 1826
Brick press. Brick press. Brick press. Brick press.	Julius Willard Ephraim Mayo Alfred B. Crossman John How	Baltimore, Md Hallowell, Me Huntington, N. Y	Dec. 31, 1825 May 2, 1826 June 24, 1826
Brick press	Julius Willard Ephraim Mayo Alfred B. Crossman John How Ephraim Mayo	Baltimore, Md Hallowell, Me Huntington, N. Y Alna, Me	Dec. 31, 1825 May 2, 1826 June 24, 1826 Feb. 9, 1827
Brick press	Julius Willard Ephraim Mayo Alfred B. Crossman John How Ephraim Mayo John Woodson	Baltimore, Md Hallowell, Me Huntington, N. Y Alna, Me Hallowell, Me Rockbridge co., Va.	Dec. 31, 1825 May 2, 1826 June 24, 1826 Feb. 9, 1827 May 18, 1827 Dec. 9, 1828 Sept. 10, 1828
Brick press.	Julius Willard Ephraim Mayo Alfred B. Crossman John How Ephraim Mayo John Woodson Archibald McClung	Baltimore, Md Hallowell, Me Huntington, N. Y Alna, Me Hallowell, Me Rockbridge co., Va. Fairfield. Va.	Dec. 31, 1825 May 2, 1826 June 24, 1826 Feb. 9, 1827 May 18, 1828 Dec. 9, 1828 Sept. 10, 1828 Mar. 26, 1831
Brick press.	Julius Willard Ephraim Mayo Alfred B. Crossman John How Ephraim Mayo John Woodson Archibald McClung	Baltimore, Md Hallowell, Me Huntington, N. Y Alna, Me Hallowell, Me Rockbridge co., Va. Fairfield. Va.	Dec. 31, 1825 May 2, 1826 June 24, 1826 Feb. 9, 1827 May 18, 1828 Dec. 9, 1828 Sept. 10, 1828 Mar. 26, 1831
Brick press.	Julius Willard Ephraim Mayo Alfred B. Crossman John How Ephraim Mayo John Woodson Archibald McClung	Baltimore, Md Hallowell, Me Huntington, N. Y. Alna, Me Hallowell, Me Rockbridge co., Va. Fairfield, Va Harrisburg, Va Harrisburg, Va	Dec. 31, 1825 May 2, 1826 June 24, 1826 Feb. 9, 1827 May 18, 1827 Dec. 9, 1828 Sept. 10, 1829 Mar. 26, 1831 July 27, 1831
Brick press.	Julius Willard Ephraim Mayo Alfred B. Crossman. John How Ephraim Mayo John Woodson Archibald McClung John Sites Thomas A. Irick David M. Crellis	Baltimore, Md Hallowell, Me Huntington, N. Y. Alna, Me Hallowell, Me Rockbridge co., Va. Fairfield, Va Harrisburg, Va Harrisburg, Va Sandwich, N. H	Dec. 31, 1825 May 2, 1826 May 2, 1826 Feb. 9, 1827 May 18, 1827 Dec. 9, 1828 Sept. 10, 1829 Mar. 26, 1831 July 27, 1831 Aug. 11, 1832
Brick press	Julius Willard Ephraim Mayo Alfred B. Crossman John How Ephraim Mayo John Woodson Archibald McClung John Sites Thomas A. Irick David M. Crellis William C. Grimes	Baltimore, Md	Dec. 31, 1825 May 2, 1826 Feb. 9, 1827 May 18, 1827 Dec. 9, 1828 Sept. 10, 1829 Mar. 26, 1831 Mar. 29, 1831 July 27, 1831 Dec. 2, 1834
Brick press	Julius Willard	Baltimore, Md	Dec. 31, 1825 May 2, 1826 June 24, 1826 Feb. 9, 1827 May 18, 1827 Dec. 9, 1828 Mar. 26, 1831 Mar. 29, 1831 Aug. 11, 1832 Dec. 2, 1834 April 8, 1835
Brick press	Julius Willard Ephraim Mayo Alfred B. Crossman. John How Ephraim Mayo John Woodson. Archibald McClung. John Sites Thomas A. Irick David M. Crellis. William C. Grimes. Nathan Sawyer Wm. Wadsworth	Baltimore, Md	Dec. 31, 1825 May 2, 1826 June 24, 1826 Feb. 9, 1827 May 18, 1827 Dec. 9, 1828 Mar. 26, 1831 Mar. 29, 1831 Aug. 11, 1832 Dec. 2, 1834 April 8, 1835
Brick press	Julius Willard	Baltimore, Md Hallowell, Me Huntington, N. Y. Alna, Me Hallowell, Me Rockbridge co., Va. Fairfield, Va Harrisburg, Va Harrisburg, Va Sandwich, N. H York, Pa Mount Vernon, Ohio Hartford, Ct Belfast, Me	Dec. 31, 1825- May 2, 1826- June 24, 1826- Feb. 9, 1827- May 18, 1827- May 18, 1827- Dec. 9, 1828- Sept. 10, 1829- Mar. 26, 1831- Mar. 29, 1831- July 27, 1831- Aug. 11, 1832- Dec. 2, 1834- April 8, 1835- Aug. 26, 1835- Aug. 20, 1835-
Brick press	Julius Willard	Baltimore, Md Hallowell, Me Huntington, N. Y. Alna, Me Hallowell, Me Rockbridge co., Va. Fairfield, Va. Harrisburg, Va. Harrisburg, Va. Sandwich, N. H York, Pa. Mount Vernon, Ohio Hartford, Ct. Belfast, Me	Dec. 31, 1825- May 2, 1826- June 24, 1826- Feb. 9, 1827- May 18, 1827- May 18, 1827- Dec. 9, 1828- Sept. 10, 1829- Mar. 26, 1831- Mar. 29, 1831- July 27, 1831- Aug. 11, 1832- Dec. 2, 1834- April 8, 1835- Aug. 26, 1835- Aug. 20, 1835-
Brick press	Julius Willard	Baltimore, Md	Dec. 31, 1825 May 2, 1826 Feb. 9, 1827 May 18, 1827 Dec. 9, 1828 Sept. 10, 1829 Mar. 26, 1831 Mar. 29, 1831 July 27, 1831 Aug. 11, 1832 Dec. 2, 1834 April 8, 1835 June 26, 1835 Aug. 20, 1835 Sept. 12, 1837
Brick press	Julius Willard	Baltimore, Md	Dec. 31, 1825 May 2, 1826 June 24, 1826 Feb. 9, 1827 Dec. 9, 1828 Sept. 10, 1829 Mar. 26, 1831 Mar. 29, 1831 July 27, 1831 Aug. 11, 1832 Dec. 2, 1834 April 8, 1835 June 26, 1835 Aug. 20, 1835 Sept. 12, 1837 Nov. 20, 1837

^{*} Additional improvement, Aug. 13, 1838.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED
kiek press	Stephen Ustick, ass'ed		l
	to C. P. Bronson	Philadelphia, Pa	Dec. 28, 1838
krick press	A. K. Fahnestock	Harrisburg, Pa	April 16, 1849
Brick press	Antoine Carbonel	Philadelphia, Pa	May 12, 1842
krick press	Alfred Hall	Cleveland, Ohio	Sept. 3, 1842
Brick press	Mark Twitchell	Gray, Me	June 10, 1844
Brick press	Jeffery Smedley	Columbia, Pa	Aug. 28, 1844
Brick press	C. B. Baker and E. Gifford	Troy, N. Y	Sept. 7, 1844
Brick press	Nathan Sawyer	Balumore, Md	Sept. 27, 1844
Brick press	Benjamin H. Brown	Philadelphia, Pa	Oct. 3, 1844
rick press	Daniel Carpenter	Cortland, N. Y	July 26, 1839
	Julius Willerd	Baltimore, Md	Jan. 29, 1840
krick press	James Hodge		
rick press		Fairplay, S. C	
Frick press	Samuel Talbot	Richmond, Va	April 8, 1840
Brick press	Thomas Conklin	Woodville, Miss	Jan. 23, 1841
krick press	Thomas W. Smith	Alexandria, D. C	Jan. 30, 1841
Brick press	Waldren Beach & Eph.	Daleimana 263	Mr. 00 1041
	Lukens	Baltimore, Md	May 22, 1841
rick press	Charles G. Brown	Caldwell's, N. Y	Oct. 11, 1841
krick press	John Waite	Leicester, Mass	Mar. 12, 1845
rick press	William Sanford	Cambridge, Mass	Sept. 9, 1845
rick press	Thomas Culbertson	Cincinnati, Ohio	May 16, 1846
Brick press	Arad Woodworth	Worcester, Mass	May 8, 1843
rick press, moulding and press-			
ing brick	Stacy Costill	Philadelphia, Pa	Sept. 4, 1840
rick press, and tile	Joseph B. Wilson	Malden, Mass	Sept. 30, 1841
	Alfred R. Crossman	Huntingdon, Mass	
rick press, bridle	Julius Willard	Baltimore, Md	June 10, 1830
rick press, bridle	Jared G. Talcott	Glastenbury, Ct	Oct. 1, 1830
krick press, compound	John Moore	Gardiner, Me	Aug. 24, 1825
rick press, and delivering	Ulysses Ward	Washington, D. C.	Dec. 15, 1835
rick press, for dry clay	N. Sawyer & T. W.		
	Smith	Washington, D. C	Aug. 13, 1838
rick press, for dry clay	Benj. H. Brown	Washington, D. C	Dec. 8, 1838
rick press, and finishing	Charles Hinkle	Allentown, Pa	June 1, 1833
brick press, and self-moulding	John Winslow	Portland, Me	Dec. 8, 1826
rick press, and spiral moulding.	James Parker	Gardiner, Me	Mar. 28, 1826
rick press, and wheel, beating	Thos. Norcross & Geo.	· .	_
	Pollard	Hallowell, Me	Oct. 1, 1825
rick, shape of, for roofs	James Parker	Gardiner, Me	Aug. 15, 1835
rick, stocks, tile	David Flagg, jr., and		_
	Amos Parker	Sweden, N. Y	Dec. 28, 1839
rick, striker	Peleg Sweet	Ashtabula, Ohio	Feb. 20, 1835
rick, striking	Andrew W. Duty	Sangerfield, N. Y	Mar. 7, 1833
rick, tempering mortar for	Apollos Kinsley	New York	Dec. 20, 1793
rick and tile.	John Hawkins	New Jetsey	July 11, 1797
rick and tile	George Hadfield	Washington, D. C.	May 15, 1800
rick and tile.	Nathaniel and Philip	,	
	W. Miller	Massachusetts	Jan. 5, 1804
rick and tile	William Hodgson	Richmond, Va	May 22, 1805
rick and tile.	John F. Gould	Newburyport, Mass	Oct. 17, 1809
rick and tile.	Daniel French	New York	Aug. 22, 1810
rick and tile	J. E. Stubbs and J.		,,
	Bonner	Cincinnati, Ohio	May 10, 1822
rick and tile	E. Fisk & B. Hinkley	Fayette, Me	Sept. 8, 1827
rick and tile	James Wood	Rockland co., N. Y.	Mar. 3, 1829
rick and tile	Benton P. Coston	Sterling, Pa	Oct. 22, 1835
rick and tile	Benjamin Hamblet	Portland, Me	Dec. 28, 183
	renlamm rammer	Hallowell, Me	Sept. 30, 1825
	Qamusi Tana		
rick and tile press	Samuel Lane	Gardiner Ma	
rick and tile press	James Parker, M. D	Gardiner, Me	Nov. 29, 1828
rick and tile press	James Parker, M. D Briggs R. Reed	Gardiner, Me Danvers, Mass Danville, Vt	

^{*} Reissued Dec. 2, 1836.

INVENTIONS OR DISCOVERIES.	Patantes.	randence.	WEEN MOCED.
Clay, mixing	Jesse Chapman	Mad River town'p, O	Tune 9 1920
Clay, mixing, and making brick	David Phillips & John D. Drummond	Whitestown, N. Y.	
Clay and mortar, mixing for making brick			
Clay, moulding and pressing, ap-	Ansel Teall	Waterloo, N. Y	
plied to the construct'n of fences Clay, potters', cleansing and tem-		Talbytown, Pa	May 15, 1841
Clay, potters', purifying	Miller and Roller Adam Weber	Manchester p.o., Md Womelsdorf, Pa	Sept. 9, 1835
Clay, soap, fire-proof, for roofs	Hezekiah Steel	Hudson, N. Y	June 29, 1833
Clay, tempering and preparing	John Matthews Nathaniel Adams	Cornwall, N. Y	July 6, 1809 Dec. 16, 1833
Clay, tempering for bricks {	Richard Stillman Jesse Taylor	Kensington, Pa ) Spring Garden, Pa	April 21, 1842
Clay and sand, grinding	Alfred Cushman	Summer, Me	Mar. 3, 1829
Crucible making	James Dalliba Joseph Smolinski	Watervliet, N. Y Philadelphia, Pa	Sept. 26, 1823
Flower pots or vases for plants	Joseph Adams	Boston, Mass	Mar. 28, 1838 Sept. 3, 1840
Glass blowing machine	Joseph Stouvenel and Fr. A. Martin	Philadelphia, Pa	Anril 16 1939
Glass blowing machine	Thos. Bakewell & John		April 16, 1833
Glass bottles, decanters	P. Bakewell John M. Gann	Pittsburgh, Pa	Feb. 8, 1834 Nov. 26, 1836
Glass cases	Thomas W. Whitley.	Kensington, Pa Paterson, N. J	April 21, 1836
Glass, compositionGlass, cooling and generating ovens	William Price	Pittsburgh, Pa	April 30, 1816
for	John Franck	Millville, N. J	May 12, 1843
Glass, cylinder, window, flattening Glass, flattening and annealing*	William Coffan, jr Samuel Richards	Hammonton, N. J Philadelphia, Pa	Oct. 1, 1836 April 6, 1842
Glase, flattening	John J. Adams	Washington, D. C.	April 21, 1832
Glass, frames for looking glasses. Glass furnaces	John Scott	Philadelphia, Pa	April 6, 1831
Glass furnaces	H. Miller Deming Jarves	Philadelphia, Pa Boston, Mass	Aug. 18, 1815 Sept. 19, 1846
Glass furnace	New England Glass Company, assignees		John 10, 1010
Class from issue	of Thos. Leighton	Cambridge, Mass	Oct. 3, 1846
Glass furniture	John P. Bakewell Alex.Gordon and John		Sept. 9, 1825
Glass, machine for blowing	P. Bakewell Joshua Laird	Pittsburgh, Pa	Dec. 8, 1839
Glass, manufacturing	Thomas Bakewell	Pittsburgh, Pa Pittsburgh, Pa	Dec. 14, 1832 Mar. 3, 1815
Glass, manufacturing	William Price	Pennsylvania	Mar. 4, 1816
from ley	G. H. Burgin	Philadelphia, Pa	April 3, 1829
Glass, moulding	Thomas W. Dyott Deming Jarves	Boston, Mass.	Oct. 10, 1828 Dec. 1, 1828
Glass, moulds, combination of	G. & P. C. Dummer & J. Maxwell		
Glass, moulds for opening glass blowers	_		
Glass moulds for pressing	Deming Jarves	Boston, Mass	Feb. 2, 1821 Aug. 21, 1841
Glass, moulds for making	Deming Jarves	Boston, Mass	May 28, 1830
Glass, moulds for pressing Glass phials, essence, tubular	Phineas C. Dummer .	Jersey city, N. J	Oct. 16, 1827
Glass, pressing in moulds	John Stainford Joseph Magoun	Boston, Mass East Cambridge, Mas	Oct. 17, 1831
Glass and stone, grinding	Peter Cooper	New York	Dec. 6, 1845 Mar. 24, 1835
Glass, sindow, flattening and tem-	Morris J. Gardiner	York, Pa	April 30, 1832
Granite, cutting and dressing!	John J. Adams	Winslow, N. J	Oct. 17, 1842
Granite, cutting and dressing	John D. Buzzell Wm. C. Poland and		•
* Antedeted April 1 1949	Earle Blossom	Portland, Me	Nov. 11, 1837

^{*} Antedated April 1, 1849. † Reissued May 16, 1849, Winslow, N. J. ‡ Reissued May 13, 1837.

INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHEN ISSUED.
Granite, hammering and dressing.	William Morse		Sept. 5, 1636
Gypsum, applied to cisterns Hammer.—See Stone, Class 2.	J. Flint & Clark Mills	New York city	Mar. 4, 1836
Hammer, cutting & dressing stone	Joseph Richards	Braintree, Mass	Feb. 20, 1838
Hammer, for dressing stone	Galen H. Pierce	Middlebury, Mass	Dec. 17, 1834
Hammer, pecking stone	Bela Gardner	Ashfield, Mass	Aug. 3, 1838
Kiln, brick	Robert Crutchfield	Botetourt county, Va	
Kiln, brick	John Duff	Washington, D. C	Oct. 31, 1825
Kiln, brick	Aaron Noyes	Newburg, N. Y	Dec. 28, 1829
Kiln, brick	Henry Read	Kensington, Pa	June 17, 1840
Kiln, brick, covering Kiln, brick, and lime, and boiling	Samuel R. Bakewell	Wellsburg, Va	May 10, 1826
kettles	Solomon Hill	New Milford, Ct	Feb. 12, 1827
Kiln, for earthenware	James Hassell	Elizabethtown, N. J.	
Kiln, lime	Peter Lossing	New Yerk	Aug. 4, 1800
Kiln, lime	Thomas Power		July 12, 1804
Kiln, lime	William Gorsuch	Baltimore, Md	Aug. 17, 1811
Kiln, lime	Thomas Power	Hudson, N. Y	Jan. 7, 1817
Kiln, lime	George Harper	Jenkestown, Pa	Jan. 22, 1817
Kiln, lime	Jacob Swope	Lancaster, Pa	Mar. 14 1817
Kiln, lime	Abel Jeans Louis Bomeisler	Mill C'k Hund'd,Del   Philadelphia, Pa	
Kiln, lime	Jos. M. Downing	Bristol, Pa	
Kiln, lime	Samuel Griscom	Reading, Pa	June 26, 1832
Kiln, lime	Thomas H. Powers	Sodus, N. Y	
Kiln, lime	A. H. Tyson	Baltimore, Md	Sept. 28, 1839
Kiln, lime, regulating draught of	Isaac Richardson	Paoli, Pa	Feb. 21, 1840
Kiln for seasoning wood.—See Cla			
Knobs of clay	J. G. Hotchkins, Jno.		
	A. Davenport & John W. Quincy	New York	July 29, 1841
Lime, manufacturing from marle.	Jedediah Peasley	Vermont	Feb. 1, 1893
Lime, process of burning*	Samuel Garber & Hen.		2, 1000
	Swartzengrover	Norristown, Pa	Mar. 25, 1837
Lime, reducing calcareous matter		·	
into	Charles Varie		May 2, 1806
Marble cutting	Joseph F. Mangin	New York	Feb. 16, 1797
Marble, cutting and polishing	Samuel Mulliken Arch. McAllister	Philadelphia, Pa Salem, N. Y	Mar. 11, 1791 Feb. 18, 1828
Marble, cutting and sawing Marble, &c., dressing	John D. Buzzell	Cape Elizabeth, Me.	Aug. 13, 1838
Marble, grooving and beading	Harlow J. Torrey	New York	Nov. 1, 1825
Marble, or pipe stone turner	David Clarke	W. Stockbridge, Mas	April 9, 1810
Marble, rubbing and scouring	Elijah Ferris	West Chester, N. Y.	Mar. 7, 1826
Marble, sawing	Jona. Dickerson	New Jersey	Jan. 9, 1796
Marble, sawing	James F. Mangin	New York	July 2, 1796
Marble, sawing	Eb. W. Judd	Middleburg, Vt	Aug. 14, 1822 July 3, 1832
Marble, sawing	Charles B. Austin	Philadelphia, Pa	July 3, 1832 Dec. 24, 1833
Marble, sawing, moulding, &c	Isaac D. Kirk	Philadelphia, Pa	Feb. 26, 1633
Marble, sawing and polishing	Luther Bissell	Otsego, N. Y	June 7, 1811
Marble, smoothing and polishing	Harlow J. Torrey	New York	Nov. 1, 1825
Marble, smoothing and polishing.	Sam'l Risley, adm'r of		
	Richard S. Risley	Philadelphia, Pa	June 14, 1834
Marble, polishing	J. Eckstein and H. D.		•
ł	Moore, assignees of	Dhiladalahia Da	Mar. 12, 1845
Marble & stone, cutting & polishing	Jacob Zeigler Anson Clarke	Philadelphia, Pa W. Stockbridge, Mas	April 10, 1810
Mill stones, dressing	John Black	Helena, Ark	Aug. 10, 1844
Mortar, preparing for the manufac-			
ture of bricks, &c	Oran W. Seely	Sodus, N. Y	Mar. 5, 1839
Mortar, machine for making	Daniel Hunt		Mar. 22, 1810
Mortar machine & mason's tender		Danville, Ill	Mar. 11, 1835
Mortar machine, preparing or		CILIE NE V	Tone 10 1004
grinding apples	Wilbert	•	
19 Additional imp	ovement, June 19, 1841.	† Reissued Dec. 9 d	r, 1676.

Slates, application to various uses. Slates, manufacturing.  Slatimore, Md.  Baltimore, Md.  Nov. 17, 18  Baltimore, Md.  Nov. 17, 18  Schoharie, N. Y.  South Strafford, Vt.  May. 3, 18  Worcester, Mass.  Nov. 3, 18  Worcester, Mass.  Nov. 3, 18	INVENTIONS OR DISCOVERISS.	PATRNTERS.	residence.	warn itered.
Mortar, mixing, & hoisting brick Mortar, ub mill Mortar, mixing, & hoisting brick Mortar, ub mill Moulding pottery J. C. Meadall and R. B. Ricketts Misser Parker Gardiner, Me. Jane 5, 18 Moulding, sugar, making Parker Moulding, and hurning Parker Moulding, sugar, making Park	Morter mixing	Andrew Kirknetzick	Lirbana, Obio	Nov. 12, 199
Mortar, mixing, & hoisting brick.  Moulding pottery  Moulds, for stone posts and fences Moulds, sogar, making  Antoine Carbonel  Ease, Saking and burning.  Pans, baking and burning.  Pans, milk, manufacturing  Pans, milk, manufacturing  Pans, milk, manufacturing  Pans, milk, of stone ware  Saford S. Perry  John Bower.  John Bowe				
Moulds, for stone posts and fences Moulds, sogar, making Moulding Mouldi	Morter miving & hojeting brick			
Moulding pottery J. C. Mendall and R. Misonville, Ky June 30, 18 Moulds, for stone posts and fences in Moulds, sugar, making Antoine Carbonel	Morter tub mill			
Moulds, for stone posts and fences Moulds, sugar, making Antoine Carbonel Plans, baking and burning. Mow Brutus New York Nov. 7, 18 Amos Miner Sanford S. Perry. Amos Miner Sanford S. Perry Now York Sept. 9, 16 Philadelphia, Pa. April 9, 16 Philadelphia, Pa. May 2, 16 Philadelphia, Pa. April 9, 16 Philadelphia, Pa. May 2, 16 Philadelphia, Pa. May 3, 16 Philadelphia, Pa. May 2, 16 Philadelphia, Pa. May 2, 16 Philadelphia, Pa. April 9, 16 Philadelphia, Pa. May 2, 16 Philadelphia, Pa. May 3, 17 Philadelphia, Pa. May 3, 17 Philadelphia, Pa. May 2, 16 Philadelphia, Pa. May 2, 16 Philadelphia, Pa. May 2, 16 Philadelphia			Gardiner, Me	Jan. 20, 202
Moulds, for stone poets and fences Moulds, signs, making Moulds, signs, making Moulds, signs, making Moulds, signs, making Pans, baking and burning.  Pans, baking and burning.  Pans, baking and burning.  Pans, milk, montiscturing Pans, milk, montiscturing Pans, milk, montiscturing Pans, milk, montiscturing Pans, milk, of stone ware Pipes, of clay Pipes, of stone ware Pipes, of clay Pipes, of c	atomating pottery		Mannyille Ky	Tune 20 183
Moulda, sugar, making Antoine Carbonel. Philadelphia, Pa. April 29, if Pans, baking and burning. Wn. Brutus New York Nov. 7, if Pans, milk, of stone ware Amos Miner Camillus, N. Y. July 20, if Pens, of clay John Bower La Camillus, N. Y. July 20, if Pipes, of clay John Bower La Hartford, Conn. Oct. 1, if Pipes, earthen or cement, for conveying water Charles Stearss Springfield, Mass. May 13, if Pottery ware, manufacture of Joel Farnham Stillwater, N. Y. Oct. 25, if Bates, application to various uses. Slates, manufacturing Joel Farnham Stillwater, N. Y. Oct. 25, if Bates, manufacturing Thomas Wondsend Springfield, Mass. Feb. 26, if States, polishing and framing John Coleman Baltimore, Md. Dec. 31, if Stone, cutting and dressing Jand J. Stiton Baltimore, Md. Dec. 31, if Stone, cutting and dressing Jand J. Stiton Baltimore, Md. Dec. 31, if Stone, cutting and dressing Jand J. Stiton Baltimore, Md. Dec. 31, if Stone, cutting and dressing Jand J. Stiton Baltimore, Md. Dec. 31, if Stone, cutting and dressing Jand J. Stiton Baltimore, Md. Dec. 31, if Stone, cutting and dressing Jand J. Stiton Baltimore, Md. Dec. 31, if Stone, dressing Lamon Parke & Iram Brewster Schoharie, N. Y. Oct. 10, if Mighill Nutting G. M. Alger and J. A. Alger Alger Schoharie, N. Y. Dretland, Me. May 15, if Stone, dressing Lamon Parke & Iram Brewster Schoharie, N. Y. April 23, if Henna Bourse Schoharie, Mass. April 10, if Henna Bourse Schoharie, N. Y. Jan. 20, if Stone, sawing mill for Schoharie, N. Y. April 23, if Henna Bourse Schoharie, N. Y. Jan. 20, if Stone, sawing mill for Schoharie, N. Y. Sept. 13, in Mass Schoharie, N. Y. Jan. 20, if Stone, sawing mill for Schoharie, N. Y. Jan. 24, if Stone, sawing mill for	Moulds for stone nests and fences		Glovester N T	
Pans, baking and burning Pans, milk, manufacturing Pans, milk, of stone ware  large of call, is Pans, pans, may facturing Pans, milk, of stone ware, large of the stone ware, manufacturing Pans, pans, milk, of stone ware, manufacturing Pans,				
Pans, milk, manufacturing Pans, milk, of stone ware Pipes, of clay.  Thomas Wickersham Pipes, of clay, conduit Pipes, clay, sone ufactors Pipes, of clay, conduit Pipes, clay, sone ufactors Pipes, of clay, conduit Pipes, of clay, conduit Pipes, clay, sone ufactors Pipes, of clay, conduit Pipes, clay, sone ufactors Pipes, of clay, conduit Pipes, clay, sone ufactors Pipes, clay, sone ufactors Pipes, of c				
Pans, milk, of stone ware    Sanford S. Perry   New York   Sept. 9, 16				
Pipes, of clay				
Pipes, of clay, conduit				
Pipes, of clay, conduit				
Pipes, eartheir or cement, for conveying water			Hortford Conn	
Pester Paris, breaking		Samuel Daruell	mardord, Comm	Oct. 1, 100
Pleaster Paris, breaking.  Pottery ware, manufacture of Siling sand and lime, &c.  Siling sand and lime, &c.  Silites, application to various uses. Silites, manufacturing.  Silites, manufacturing.  Silites, manufacturing.  Silites, prolishing and framing Stone, cutting and chiselling Stone, cutting and dressing.  Stone, hewing, drilling, & cutting Stone, pawing.  Stone, hewing, drilling, & picking.  Stone, sawing.  Stone, sawin		(n) 1 (n)	G	Nr 0 100
Pottery ware, manufacture of Selfing sand and lime, &c		~ .		May 0, 100
E. Blanc and B. H. Latrobe   Latrobe   New Orleans, La   April 14, 18				May 12, 181
Latrobe   New Orleans, La.   April 14, 16			Sunwater, N. I	Oct. 25, 184
Slates, application to various uses. Slates, manufacturing	Sifting sand and time, &c			
Slates, manufacturing.  Slates, manufacturing.  Slates, manufacturing.  Slates, manufacturing.  Slates, manufacturing.  Thomas Woodsend  J. Madison, E. and P. S. Mattes.  Slates, polishing and framing  Stone, cutting and framing.  Stone, cutting and chiselling  Larmon Parke & Iram  Brewster  Mighill Nutting.  Stone, cutting and dressing.  Stone, dressing.  Clarke Miller, jr  Nathan Jacobs  Nathan Jacobs  Nathan Jacobs  Nathan Jacobs  Stone, dressing.  Stone, dress				April 14, 182
Slates, manufacturing	Slates, application to various uses.	William Sheldon, jr	Springfield, Mass	Feb. 28, 181
Slates, manufacturing		Thomas Wondsend		Aug. 7, 180
Slates, polishing and framing Stone, cutting and chiselling Stone, cutting and dressing Stone, cutting and planing Stone, cutting and planing Stone, cutting and dressing Stone, cutting and planing Stone, cutting and dressing Stone, dressi	Slates, manufacturing	J. Madison, E. and P.		
Stone, cutting and chiselling  Stone, cutting and dressing  Stone, cutting and planing  Stone, cutting and dressing  Stone  Stone, cutting and dressing  Schoharie, N. Y  Oct. 10, 18  Reading, N. Y  Schoharie, N. Y  Schoharie, N. Y  May 15, 16  Schoharie, N. Y  Schoharie, N. Y  May 15, 16  Schoharie, N. Y  Schoharie, N. Y  May 15, 16  Schoharie, N. Y  Schoharie, N. Y  May 15, 16  Schoharie, N. Y  Schoth dressing  The dressing  Thomas J. Cornell  Roscoe, Ili.  Scouth Strafford, Vt  A. Clark and C. H  Bouth Strafford, Vt  A. Clark and C. H  Bouth Strafford, Vt  A. Clark and C. H  Bouth Strafford, V  May 10, 1				Dec. 22, 182
Stone, cutting and dressing.  Stone, dress	Slates, manufacturing	Thomas Symington		Nov. 17, 182
Stone, cutting and dressing.  Stone, dress	Slates, polishing and framing	John Coleman		Dec. 31, 181
Stone, cutting and dressing.  Stone, cutting and planing.  Stone, cutting and planing.  Stone, cutting and planing.  Stone, cutting and planing.  Stone, cutting and dressing.  Stone, cutting and dressing.  Stone, dressing.  Ston		J. and J. Sutton	Reading, N. Y	June 20, 189
Stone, cutting and dressing.  Stone, dressing.  Switzerland.   Stone, cutting and chiselling	Larmon Parke & Iram			
Stone, cutting and dressing.  Stone, cutting and planing.  Stone, cutting and dressing.  Stone, cutting and dressing.  Stone, dressing.  S	-	Brewster	Schoharie, N. Y	Oct. 10, 183
Alger	Stone, cutting and dressing	Mighill Nutting	Pordand, Me	May 15, 183
Alger	Stone, cutting and dressing		,	• 1
Boynton	•		South Strafford, Vt.	Mor. 3, 183
Stone, cutting and dressing.  Stone cutters  Stone, dressing.  Stone, dressing.  Stone, dressing.  Stone, dressing.  Stone, dressing.  Thomas J. Cornell. Jacob Jenks.  Clarke Miller, jr. Nathan Jacobs.  Theodere R. Timby. Hammond Ward. John C. Dexter. John C. Dexter. John C. Dexter.  John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John C. Dexter. John J. Edward, Ohio.  Mar. 11, 18 Auburn, N. Y. April 23, 18 April 10, 18 Salem, Mass. April 10, 18 Salem, Mar. 12, 18 Salem, Mass. April 10,	Stone, cutting and planing	A. Clark and C. H.	•	
Stone cutters Jacob Jenks Roscoe, Ill; June 24, 18 Stone, dressing Nathan Jacobs New York Dec. 31, 18 Stone, dressing Theodere R. Timby April 23, 18 Stone, dressing Theodere R. Timby April 23, 18 Stone, dressing John C. Dexver Salem, Mass April 10, 18 Stone, dressing drilling, & cutting Stone, facing and dressing David Hull and Jo. Critcherson David Hull and Jo. Critcherson Linus Yale Salisbury, N. Y. Jan. 20, 18 Stone, sawing mill for David V. Rassells Salisbury, N. Y. Jan. 20, 18 Stone, sawing John and S. Dwight Nathaniel Helmes Joseph L. Duller Stone, sawing John and S. Dwight Nathaniel Helmes Joseph L. Duller Stone, sawing John shing, & moulding Stone, saw maill Sanford S. Perry New York Dec. 31, 18 Stone ware, hurning wishout self. Tile, cutting clay for Andrew W. Duty Trey, N. Y. Sept. 12, 18 Stone scar, farming wishout self. Tile, cutting clay for Andrew W. Duty Thes, clay, for aqueducts John H. Rowan and		Boynton	W. Stockbr'ge, Mass	June 20, 183
Stone cutters	Stone, cutting and dressing	Thomas J. Cornell	Worcester, Mass	Nov. 3, 184
Stone, dressing	Stone cutters		Roscoe, Ill; , ,	June 24, 184
Stone, dressing	Stone, dressing	Clarke Miller, jr	Williamsport, Pa,	Feb. 14, 183
Stone, dressing	Stone, dressing		Newark, Ohio	Mar. 11, 183
Stone, dressing	Stone, dressing	Theodore R. Timby	Auburn, N. Y	April 23, 184
Stone, dressing	Stone, dressing	Hammond Ward	Charlton, Mass	April 10, 184
Stone, dressing dress	Stone, dressing	John C. Dexter		Mar. 12, 184
of Daniel Pfaser.  Switzerland.  April 10, 18 Salem, Mass.  April 10, 18 Sa		Jacques Keller, ass'ee		
Bione, dressing, drilling, & cutting Bione, facing and dressing Critchersen Linus Yele Linus Yele Charles B. Read Bisbury, N. Y. Jen. 20, 16 Bisbure, sawing mill for David V. Rassells Washington, Ky. Feb. 8, 16 Bostone, sawing John and S. Dwight Nathaniel Helmes Bistone, sawing, polishing, & moulding Stone, saw sail Tile, cutting clay for Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 17 Trey, N. Y. Sept. 12, 16 Souch Caroline May 8, 18 Souch Caroline May 8, 16 Souch Caro	, 5.		Switzerland	April 10, 184
Stone, facing	Stone, dressing, drilling, & outting		Salem, Mass	Aug. 3, 189
Stone, facing and dressing	Bione, facing			
Critcherson			•	
Stone, hewing and hammaring  Charles B. Reed  David V. Raaselle  David V. Raaselle  Washington, Ky. Feb. 8, 16  Boston, Mass. June 17, 16  Barnstable, Mass. Jan. 24, 16  Bloomfield, N. Y. Nov. 3, 16  Win. Palmer.  Win. Palmer.  New York. Dec. 31, 16  Stone, saw maill  Sanford S. Perry.  Andrew W. Duty  Troy, N. Y. Sept. 12, 16  South Caroline  May 8, 17  Thes, clay, for aqueducts. James Ramsay  June 27, 16  Washington, Ky. Feb. 8, 16  Washington,	, ,		Portland, Me	May 8, 183
Stone, sawing mill for	Stone, hewing, drilling, & picking.		Salisbury, N. Y	Jan. 20, 189
Stone, sawing mill for			W. Bridge ter, Mass	June 27, 182
Stone, sawing				
Stone, sawing			Boston, Mass	
Stone, sawing, polishing, & moulding.  Stone, saw maill				
Stone, sawing, polishing, & moulding				
ing	Stone, sawing, polishing, & mould-			,,
Stone, and maill		Simeen B. Withers	Bloomfield. N. Y	Nov. 3. 181
Stone, saw maill				
Seene ware, hurning wishout salt. Sanford S. Persy				
Tile, cutting clay for				
Tile, and pan				
Tubes, clay, for aqueducts James Ramsay Burke, Vi April 4, 16 Fubes, clay, manufacturing John H. Rowan and				
Tubes, clay, manufacturing John H. Rowan and				
H. Wise Fredericktown, Pa. May 10, 16				when to tol
ve. 11 mm	- was a mark a man metadoth t Bill		Fredericktown Pa	May 10 199
		A4. 77 MMP 4	I die	PARKET EN, 1490

^{*} Amteda ted Bept. 3, 1837.

[†] Rossign patent dated Dec. 31, 1844.



### CLASS No. XVI.

# LEATHER.

Including Tanning and Dressing, Manufacture of Boots, Shoes, Saddlery, Harness, &c.

### LIST OF PATENTS.

CLASS XVI.—LEATHER, including Tanning and Dressing, Manufacture of Boots, Shoes; Saddlery, Harness, &c.

Bating hides and akins.    Bating hides    Bating hides    Wm. Zollickoffer    Middleburg, Md. Aug. 18, 1848    May 16, 1809    Hilledale, Mass    May 16, 1809    Malen, Mass. Sept. 1, 183-   Beach, shoemakers'    Joel Soper    Boots, sonk sole.    Boots crimpe	. *************************************	<del>, , , , , , , , , , , , , , , , , , , </del>	<del> </del>	
Bating hides	IMPENTIONS OR DISCOVERIES.	Patentees.	residence.	WHEN ISSUED.
Beaming	Bating hides and skins	Wm. Zollickoffer	Middleburg, Md	Feb. 3, 1838
Beaming Jer. Ladd New Hampshire. July 17, 1800 Benach, shoemakers'. Joel Soper Windsor, Ct Aug. 12, 183 Benach, shoemakers'. Joel Soper Windsor, Ct Aug. 12, 183 Boots & bootses, cutting the uppers Boots & bootses, cork sole Wm. L. McCauley Boots & bootses, cork sole Wm. L. McCauley Boot crimps Joseph Sanderson Springfield, Mass Sept. 1, 183 Boot crimps Joseph Sanderson Springfield, Mass Sept. 1, 183 Boot crimps Bradford Rowe Mayland, N. Y. Dec. 17, 1845 Boot crimps Bradford Rowe Mayland, N. Y. Dec. 17, 1845 Boot crimps Josiah M. Read, ass'e of Abraham Thayer, ass'e of J. Copeland Boot crimps Sept. 25, 183 Boot crimps Cosman White Galway, N. Y. Feb. 1845 Boot crimps Cosman White Galway, N. Y. Feb. 1845 Boot crimps Starr Fairchild Spencer, N. Y. May 10, 1846 Boots, crimping Nathaniel L. Moore Samuel Moorehouse Roots, crimping Tyler Howe Mass Dunbar Smithfield, N. Y. Feb. 4, 1815 Boots, crimping Tyler Howe More the spent of the spoots, crimping Lewis Lucas Dunon B. Barnum Sharon, Mass Feb. 19, 1830 Boots, crimping Dunon B. Barnum New Yarfield, Ct. Aug. 5, 1831 Boots, crimping fronts Hubbard L. Pierce Boots, crimping leather for Lesse Lundy New Parifield, Ct. Aug. 5, 1831 Boots, crimping leather for Joseph H. Punchard Herve S. Davis Henched, Moses S. Woodward John Morgan John Dupont and Theodore, cutting the legs of John Morgan Philadelphia, Pa. April 19, 1811 Boots, cutting the legs of John Dupon tand Theodore Hyatt John Ells, ir Unadilla, N. Y. Mar. 23, 1836 Boots, grimping stwarrow Elijah Holmes Stophila, N. Y. Dot. 30, 1846 Boots, grimping stater for John Dupon tand Theodore Hyatt John Legs turning John Dupon tand Theodore Hyatt John Legs t	Bating hides	Wm. Zollickoffer	Middleburg, Md	Aug. 18, 1842
Bench, perpetual, shoe.   Samuel Haynes.   Malden, Mass.   Sept. 1, 183-Bench, shoemakers'.   Joel Soper.   Windsor, Ct.   Aug. 12, 181-Bootage bootes, corting the uppers   Bootage bootes, corting the uppers   Bootage bootes, corting the uppers   Bootage bootes, cortings   Jos. T. Buck.   New Canaan, Ct.   Oct. 27, 183-Boot crimps   Horace Ferre.   Springfield, Mass.   Sept. 23, 183-Boot crimps   Bradford Rowe.   Maryland, N. Y.   Dec. 17, 184-Boot crimps   Eli P. Drake.   Joseph Amaham Thayer, ase'ee of J. Copeland   Boot crimps   Cosman White   Galway, N. Y.   Feb. 12, 184-Boots, crimping   Samuel Moorehouse.   Samithfield, N. Y.   Feb. 12, 184-Boots, crimping   Samuel Moorehouse.   Samuel Moorehouse.   Samithfield, N. Y.   Feb. 4, 181-Boots, crimping   Jonah Brewster.   Wortnington, Mass.   Feb. 19, 183-Boots, crimping   Jonah Brewster.   Samuel Moorehouse.   Samuel Moorehous		Jer. Ladd		July 17, 1801
Bench, shoemakers'. Joel Soper. Windsor, Ct. Aug. 12, 181: Boarding machine, for softening hides . Shides . Shides . Shides . War Land . Ashby, Mass June 19, 182: Boots, crimps . Joseph Sanderson . Cincinnati, Ohio . June 7, 183: Boot crimps . Horace Ferre . Springfield, Mass . Spri	Beaming	Allen Hill	Hillsdale, Mass	May 16, 1805
Bench, shoemakers'. Joel Soper. Windsor, Ct. Aug. 12, 181: Boarding machine, for softening hides . Shides . Shides . Shides . War Land . Ashby, Mass June 19, 182: Boots, crimps . Joseph Sanderson . Cincinnati, Ohio . June 7, 183: Boot crimps . Horace Ferre . Springfield, Mass . Spri	Bench, perpetual, shoe	Samuel Haynes	Malden, Mass	Sept. 1, 1834
Boarding machine, for softening hides	Bench, shoemakers'	Joel Soper	Windsor, Ct	Aug. 12, 1815
Boots & bootees, cutting the uppers of Boots, cork sole Wm. L. McCauley. Baltimore, Md. June 5, 184 Boot crimps Joseph Sanderson. Cincinnati, Ohio. June 7, 183 Boot crimps Horace Ferre. Springfield, Mass. Sept. 25, 183 Boot crimps Eli P. Drake Troy, N. Y. Dec. 17, 184 Boot crimps Joseph M. Rend, ass'e of Abraham Thayer, ass'ee of J. Copeland Pelatiah Stevens, jr. Cosman White. Boot crimps Cosman White. Galway, N. Y. Feb. 12, 184 Boot crimps Cosman White. Galway, N. Y. Feb. 12, 184 Boots, crimping Saller Spencer, N. Y. May 10, 184 Boots, crimping Saller Spencer, N. Y. Feb. 4, 1815 Boots, crimping Tyler Howe. Worcester, Mass. June 19, 183 Boots, crimping Jonah Brewster. Worthington, Mass. Feb. 19, 183 Boots, crimping Lewis Lucas Boots, crimping Silas Witherby Esser, Vt. July 25, 183 Boots, crimping Lewis Lucas Boots, crimping fronts Joseph H. Punchard Boots, crimping leather for Jesse Van Winkle Boots, crimping leather for Jesse Van Winkle Boots, crimping gleather for Jesse Van Winkle Boots, crimping gleather for Jesse Van Winkle Boots, crimping leather for Jesse Van Winkle Boots, crimping gleather for Jesse Van Winkle Boots, crimping leather for Jesse Van Winkle Boots, crimping gleather for Jesse Van Winkle Boots, crimping gleather for Jesse Van Winkle Rochester, N. Y. April 17, 183 Boots, crimping gleather for Jesse Van Winkle Rochester, N. Y. April 17, 183 Boots, crimping leather for Jesse Van Winkle Rochester, N. Y. April 17, 183 Boots, crimping gleather for Jesse Van Winkle Rochester, N. Y. April 17, 183 Boots, crimping leather for Jesse Van			i i	
Boots, cork sole	hides	Eli Kendall	Ashby, Mass	
Boot crimps	Boots & bootees, cutting the uppers	Jos. T. Buck		
Boot crimps Bradford Rowe. Bradford	Boots, cork sole	Wm. L. McCauley		
Boot crimps	Boot crimps	Joseph Sanderson		
Boot crimps	Boot crimps	Horace Ferre	Springfield, Mass	Sept. 25, 1839
Boot crimps		Bradford Rowe	Maryland, N. Y	Dec. 17, 1842
Abraham Thayer, ass'ee of J. Copeland Boston, Mass. Jan. 20, 1844 Boot crimps Pelatiah Stevens, jr. Canton, Mass. July 15, 1844 Boot crimps Starr Fairchild, ass'ee of Reuben Fairchild Cheney Snow & T. N. Sadler Spencer, N. Y. Feb. 12, 1845 Boots, crimping Nathaniel L. Moore. Samuel Moorehouse. Tyler Howe. Samuel Moorehouse. Tyler Howe. Samuel Moorehouse. Tyler Howe. Worcester, Mass. June 11, 1825 Boots, crimping Jonah Brewster. Worthington, Mass Mar. 23, 1836 Boots, crimping Lewis Lucas Worthington, Mass Mar. 23, 1836 Boots, crimping Lewis Lucas Barre, Vt. July 25, 1835 Boots, crimping , cramp for. Hubbard L. Pierce. St. Johnsbury, Vt. June 25, 1836 Boots, crimping fronts Joseph H. Punchard. Boots, crimping leather for. Jesse Van Winkle Westernville, N. Y. June 27, 1846 Boots, crimping Suwarrow. Eleazer Lundy New York April 17, 1837 Boots, cutting the legs of John Morgan Philadelphia, Pa. April 10, 1811 Boots, cutting the legs of John Morgan Philadelphia, Pa. April 10, 1811 Boots, cutting the legs of John Morgan Philadelphia, Pa. April 10, 1811 Boots, cutting the legs of John Morgan Philadelphia, Pa. April 10, 1811 Boots, cutting the legs of John Morgan John H. Dupont and Theodore Hyatt John Eells, jr John Eells, jr John Eells, jr John Folsom Hallowell, Me. April 14, 1835 Boots, machine for blacking and cleaning John Folsom Hallowell, Me. April 14, 1835			Troy, N. Y	Nov. 15, 1843
ass'ee of J. Copeland Pelatiah Stevens, jr. Galway, N. Y. Feb. 12, 1845 Boot crimps Comman White Galway, N. Y. Feb. 12, 1845 Boot crimps Comman White Galway, N. Y. Feb. 12, 1845 Boot crimps Comman White Galway, N. Y. Feb. 12, 1845 Boots, crimping Cheney Snow & T. N. Sadler Samuel Moorehouse Samithfield, N. Y. Feb. 4, 1845 Boots, crimping Tyler Howe Samuel Moorehouse Eastport, Me. June 19, 1825 Boots, crimping Jonah Brewster Wortcaster, Mass June 11, 1825 Boots, crimping Jonah Brewster Wortchingled, N. Y. Feb. 19, 1837 Boots, crimping Jonah Brewster Wortchingled, N. Y. Feb. 19, 1837 Boots, crimping Jonah Brewster Wortchingled, N. Y. Feb. 19, 1837 Boots, crimping Jonah Brewster Wortchingled, N. Y. Feb. 19, 1837 Boots, crimping Jonah Brewster Wortchingled, N. Y. Feb. 19, 1837 Boots, crimping Jonah Brewster Wortchingled, N. Y. Feb. 19, 1837 Boots, crimping Jonah Brewster Wortchingled, N. Y. Feb. 19, 1837 Boots, crimping gleamps for Lewis Lucas Barre, Vt. June 23, 1836 Boots, crimping fronts Hubbard L. Pierce New Fairfield, Ct. Aug. 5, 1835 Boots, crimping leather for Joseph H. Punchard Boots, crimping leather for Joseph H. Punchard Boots, crimping leather for Jesse Van Winkle Rochester, N. Y. April 17, 1837 Boots, cutting the legs of John Morgan Poland, Me. Feb. 10, 1836 Boots, cutting the legs of John Wormon Baltimore, Md Oct. 21, 1811 Boots, cutting the legs of John Wormon Philadelphia, Pa April 16, 1817 Boots, cutting the legs of John Wormon Baltimore, Md Oct. 21, 1811 Boots, cutting the legs of John Warren, Ohio Mar. 13, 1844 Boots, gaiter, gum elastic gores John H. Dupont and Theodore Hyatt New York April 16, 1817 Boots, marning John Folsom Hallowell, Me April 14, 1835	Boot crimps			
Boot crimps   Cosman White   Cosma	•			
Boot crimps	_		Boston, Mass	Jan. 20, 1844
Boot crimps				
of Reuben Fairchild. Cheney Snow & T. N. Sadler	Boot crimps	Cosman White	Galway, N. Y	Feb. 12, 1845
Boots, crimping.  Amasa Dunbar.  Boots, crimping.  Boots, crimping, clamps for.  E. G. Pomeroy.  Hubbard L. Pierce.  Hubbard L. Pierce.  Boots, crimping fronts.  Joseph H. Punchard.  Boots, crimping leather for.  Joseph H. Sandford.  Boots, crimping Suwarrow.  Jesse Van Winkle  Boots,	Boot crimps		Trumbull, Ct	! ' May 10, 1845
Boots, crimping. Samuel Moorehouse. Eastport, Me. June 19, 1827 Boots, crimping. Tyler Howe. Wordengton, Mass. June 11, 1828 Boots, crimping. Jonah Brewster. Wordington, Mass. Mar. 23, 1836 Boots, crimping. Lewis Lucas Barre, Vt. July 25, 1836 Boots, crimping, clamps for Lewis Lucas Barre, Vt. July 25, 1836 Boots, crimping, cramp for. Hubbard L. Pierce St. Johnsbury, Vt. June 25, 1836 Boots, crimping fronts. Joseph H. Punchard. Boots, crimping leather for. Jesse Van Winkle Rochester, N. Y. April 17, 1837 Boots, crimping Suwarrow. Jer. Sibley New York Aug. 14, 1816 Boots, cutting cassock John Morgan. Philadelphia, Pa. April 10, 1811 Boots, cutting cassock John H. Dupont and Theodore Hyatt. New York, N. Y. Doct. 30, 1840 Boots, gaiter, gum elastic gores John H. Sandford Hopewell, N. Y. June 22, 1842 Boots, machine for blacking and cleaning John Folsom. Hallowell, Me. April 14, 1835	Boot crimps			1
Boots, crimping. Samuel Moorehouse. Eastport, Me. June 19, 1827 Boots, crimping. Tyler Howe. Wordengton, Mass. June 11, 1828 Boots, crimping. Jonah Brewster. Wordington, Mass. Mar. 23, 1836 Boots, crimping. Lewis Lucas Barre, Vt. July 25, 1836 Boots, crimping, clamps for Lewis Lucas Barre, Vt. July 25, 1836 Boots, crimping, cramp for. Hubbard L. Pierce St. Johnsbury, Vt. June 25, 1836 Boots, crimping fronts. Joseph H. Punchard. Boots, crimping leather for. Jesse Van Winkle Rochester, N. Y. April 17, 1837 Boots, crimping Suwarrow. Jer. Sibley New York Aug. 14, 1816 Boots, cutting cassock John Morgan. Philadelphia, Pa. April 10, 1811 Boots, cutting cassock John H. Dupont and Theodore Hyatt. New York, N. Y. Doct. 30, 1840 Boots, gaiter, gum elastic gores John H. Sandford Hopewell, N. Y. June 22, 1842 Boots, machine for blacking and cleaning John Folsom. Hallowell, Me. April 14, 1835			Spencer, N. Y	May 21, 1845
Boots, crimping	Boots, crimping	Nathaniel L. Moore	Smithfield, N. Y	Feb. 4, 1812
Boots, crimping	Boots, crimping	Samuel Moorehouse	Eastport, Me	June 19, 1827
Boots, crimping	Boots, crimping	Tyler Howe	Worcester, Mass	June 11, 1829
Boots, crimping				
Boots, crimping. clamps for.  Boots, crimping, clamps for.  E. G. Pomeroy.  Newark, Ohio.  Oct. 4, 1836 Boots, crimping, cramp for.  Hubbard L. Pierce.  St. Johnsbury, Vt.  June 25, 1836 Boots, crimping fronts.  Boots, crimping leather for.  Joseph H. Punchard.  Boots, crimping leather for.  Jesse Van Winkle Boots, crimping legs.  William Gerrish.  Boots, crimping Suwarrow.  Jer. Sibley.  New York.  April 17, 1837 Boots, cutting cassock  John Morgan.  Philadelphia, Pa.  April 10, 1811 Boots, cutting.  Thomas Cranage.  Warren, Ohio.  Mar. 13, 1844 Boots, cutting.  Boots, cutting.  Boots, cutting.  Boots, cutting.  Boots, cutting.  Thomas Cranage.  John Vernon.  Baltimore, Md.  Oct. 21, 1811 Boots, cutting.  Boots, gaiter, gum elastic gores.  John H. Dupont and Theodore Hyatt.  John Eells, jr.  Joneph H. Sandford.  New York, N. Y.  Oct. 30, 1840 Mar. 25, 1825 Boots, machine for blacking and cleaning.  John Folsom.  Hallowell, Me.  April 14, 1835			Worthington, Mass.	Mar. 23, 1830
Boots, crimping. clamps for.  Boots, crimping, clamps for.  E. G. Pomeroy.  Newark, Ohio.  Oct. 4, 1836 Boots, crimping, cramp for.  Hubbard L. Pierce.  St. Johnsbury, Vt.  June 25, 1836 Boots, crimping fronts.  Boots, crimping leather for.  Joseph H. Punchard.  Boots, crimping leather for.  Jesse Van Winkle Boots, crimping legs.  William Gerrish.  Boots, crimping Suwarrow.  Jer. Sibley.  New York.  April 17, 1837 Boots, cutting cassock  John Morgan.  Philadelphia, Pa.  April 10, 1811 Boots, cutting.  Thomas Cranage.  Warren, Ohio.  Mar. 13, 1844 Boots, cutting.  Boots, cutting.  Boots, cutting.  Boots, cutting.  Boots, cutting.  Thomas Cranage.  John Vernon.  Baltimore, Md.  Oct. 21, 1811 Boots, cutting.  Boots, gaiter, gum elastic gores.  John H. Dupont and Theodore Hyatt.  John Eells, jr.  Joneph H. Sandford.  New York, N. Y.  Oct. 30, 1840 Mar. 25, 1825 Boots, machine for blacking and cleaning.  John Folsom.  Hallowell, Me.  April 14, 1835			Essex, Vt	May 12, 1832
Boots, crimping, cramp for.  Boots, crimping, cramp for.  Boots, crimping fronts.  Boots, crimping fronts.  Boots, crimping fronts.  Boots, crimping leather for.  Boots, crimping suwarrow.  Boots, crimping Suwarrow.  Boots, crimping Suwarrow.  Boots, cutting cassock  John Morgan.  John Wornon.  Boots, cutting the legs of.  Boots, cutting.  Thomas Cranage.  Boots, cutting.  Boots, gaiter, gum elastic gores.  John H. Dupont and Theodore Hyatt.  Boots, mass.  New York.  April 17, 1837  April 17, 1837  April 19, 1836  New York.  April 19, 1816  April 16, 1817  Boots, gaiter, gum elastic gores.  John H. Dupont and Theodore Hyatt.  John Eells, jr.  Joseph H. Sandford.  Boots, machine for blacking and cleaning.  John Folsom.  Hallowell, Me.  April 14, 1835			Barre, Vt	July 25, 1832
Boots, crimping, cramp for  Hubbard L. Pierce  Joseph H. Punchard.  Boston, Mass  Westernville, N. Y. June 25, 1836  Boots, crimping fronts  Henry S. Davis  Westernville, N. Y. June 27, 1846  Boots, crimping leather for  Jesse Van Winkle  Moses S. Woodward  Marshalton, Pa  July 31, 1837  Boots, crimping Suwarrow  Eleazer Lundy  New York  Jesse 14, 1816  Boots, crimping Suwarrow  Jer. Sibley  John Worgan  John Worgan  John Wornon  Baltimore, Md. Oct. 21, 1811  Boots, cutting the legs of  John Wornon  Baltimore, Md. Oct. 21, 1811  Boots, cutting  Thomas Cranage  Warren, Ohio  Mar. 13, 1844  Boots, gaiter, gum elastic gores  John H. Dupont and  Theodore Hyatt  John Eells, jr  John Hopswell, N. Y  Joseph H. Sandford  New York, N. Y  Oct. 30, 1840  Roots, machine for blacking and cleaning  John Folsom  Hubbard L. Pierce  St. Johnsbury, Vt  June 25, 1836  May 8, 1830  Marshalton, Pa  Joland, H. Suboth, Marshalton, Pa  John Worshallon, Pa  John H. Suboth, New York  April 14, 1835		<b>-</b>		
Boots, crimping fronts			Newark, Ohio	Uct. 4, 1836
Boots, crimping fronts			St Johnsbury, Vt	
Boots, crimping leather for.  Boots, crimping leather for.  Boots, crimping leather for.  William Gerrish.  Boots, crimping Suwarrow.  Boots, crimping Suwarrow.  Boots, crimping Suwarrow.  Boots, crimping Suwarrow.  Jer. Sibley.  John Morgan.  John Wernon.  Boots, cutting cassock:  John Vernon.  Boots, cutting.  Thomas Cranage.  Warren, Ohio.  Mar. 13, 1844  Boots, gaiter, gum elastic gores.  John H. Dupont and Theodore Hyatt.  Boots, lasting.  John Eells, jr.  Joseph H. Sandford.  Boots, machine for blacking and cleaning.  John Folsom.  July 31, 1837  Rochester, N. Y.  April 17, 1837  Aug. 14, 1816  Aug. 14, 1816  April 10, 1817  Bollimore, Md.  Oct. 21, 1811  Warren, Ohio.  Mar. 13, 1844  April 16, 1817  Stoughton, Mass.  Aug. 12, 1840  John Eells, jr.  Joseph H. Sandford.  Hopewell, N. Y.  June 22, 1842  April 14, 1835			Boston, Mass	May 8, 1830
Boots, crimping leather for  Boots, crimping legs  Boots, crimping legs  Boots, crimping Suwarrow  Boots, crimping Suwarrow  Boots, crimping Suwarrow  Jer. Sibley  John Morgan  John Morgan  John Wernon  Boots, cutting the legs of  John Wernon  John Wernon  Boots, cylindrical cleaner  Boots, cylindrical cleaner  Boot, gaiter, gum elastic gores  John H. Dupont and Theodore Hyatt  John Eells, jr  John Wew York  Boots, dating  John H. Dupont and Theodore Hyatt  John Eells, jr  John H. Dupont and Theodore Hyatt  John Eells, jr  John H. Dupont and Theodore Hyatt  John Eells, jr  John Eells, jr  Joseph H. Sandford  Boots, machine for blacking and cleaning  John Folsom  Hallowell, Me  July 31, 1837  Poland, Me  Feb. 10, 1836  Royard  Aug. 12, 1811  Bott  John Marshalton, Pa  July 31, 1837  Poland, Me  Feb. 10, 1836  Royard  Aug. 12, 1811  Bott  New York  April 16, 1817  Stoughton, Mass  Aug. 12, 1840  New York  April 16, 1817  Bott  New York, N. Y  Oct. 30, 1840  Hopewell, N. Y  June 22, 1842  Boots, machine for blacking and cleaning  John Folsom  Hallowell, Me  April 14, 1835			Westernville, N. Y.	June 27, 1840
Boots, crimping legs			Rochester, IV. I	April 17, 1037
Boots, crimping Suwarrow.  Boots, crimping Suwarrow.  Jer. Sibley.  John Morgan.  John Vernon.  Boots, cutting the legs of.  Boots, cutting.  Thomas Cranage.  Thomas Cranage.  Warren, Ohio.  Boots, cutting.  Boot forms, bevelling.  Boot, gaiter, gum elastic gores.  John H. Dupont and Theodore Hyatt.  John Eells, jr.  John Eells, jr.  Joseph H. Sandford.  Boots, machine for blacking and cleaning.  Eleazer Lundy.  New York.  April 16, 1817  Stoughton, Mass.  Aug. 14, 1816  April 16, 1817  Stoughton, Mass.  Aug. 12, 1840  Oct. 21, 1811  Warren, Ohio.  Mar. 13, 1844  New York.  April 16, 1817  Stoughton, Mass.  Aug. 12, 1840  New York, N. Y.  Oct. 30, 1840  Hopewell, N. Y.  June 22, 1842  Hopewell, N. Y.  June 22, 1842			Marshalton, Pa	July 31, 1037
Boots, crimping Suwarrow. Jer. Sibley. New York. April 25, 1811 Boots, cutting cassock John Morgan. Philadelphia, Pa. April 10, 1811 Boots, cutting the legs of . John Vernon. Baltimore, Md. Oct. 21, 1811 Boots, cutting. Thomas Cranage. Warren, Ohio. Mar. 13, 1844 Boots, cutting bevelling. Stoughton, Mass. April 16, 1817 Boot forms, bevelling. Stoughton, Mass. Aug. 12, 1840 Boot, gaiter, gum elastic gores. John H. Dupont and Theodore Hyatt. New York, N. Y. Oct. 30, 1840 Boots, lasting. John Eells, jr. Unadilla, N. Y. Mar. 25, 1825 Boots, machine for blacking and cleaning. John Folsom. Hallowell, Me. April 14, 1835				
Boots, cutting cassock John Morgan				
Boots, cutting the legs of				
Boots, cutting			Politicare 3/2	While 10, 1911
Boots, cylindrical cleaner. Israel Pinkney. New York. April 16, 1817 Boot forms, bevelling. Elijah Holmes. Stoughton, Mass. Aug. 12, 1840 Boots, gaiter, gum elastic gores. John H. Dupont and Theodore Hyatt. John Eells, jr. Unadilla, N. Y. Mar. 25, 1825 Boots, machine for blacking and cleaning. John Folsom. Hallowell, Me. April 14, 1835	Boots outling the legs of		Daiumore, Mu	Mon 19 1044
Boot, gaiter, gum elastic gores  Boots, gaiter, gum elastic gores  Boots, lasting  Boots, lasting  Boots, machine for blacking and cleaning  John H. Dupont and Theodore Hyatt  John Eells, jr  Joseph H. Sandford  John Folsom  Hallowell, Me  Aug. 12, 1840  New York, N. Y  Unadilla, N. Y  June 22, 1842  Hallowell, Me  April 14, 1835	Roots owlindrical cleaner			
Boot, gaiter, gum elastic gores  Boots, lasting  Boot legs, turning  Boots, machine for blacking and cleaning  John H. Dupont and Theodore Hyatt  John Eells, ir  Joseph H. Sandford  Hopewell, N. Y  June 22, 1842  John Folsom  Hallowell, Me  April 14, 1835				
Boots, lasting			Swakimi, mass	11ug. 14, 1010
Roots, lasting	mand Parier, Paris campro Roses		New York N V	Oct. 30 1940
Boots, machine for blacking and cleaning	Roote lesting	John Felle ir	Unedille N V	Mar 95 1995
Boots, machine for blacking and cleaning		Joseph H. Sandford		
cleaning John Folsom Hallowell, Me April 14, 1835		vosopn zz. Danatotu.	Trobemon' Tr. T	Julio 200, 1022
Boots, machine for crimping John Young West Galway N Y Aug. 26, 1845		John Folsom	Hallowell, Me	April 14, 1835
	Boots, machine for crimping	John Young	West Galway, N.Y.	Aug. 26, 1845

INVENTIONS OR DISCOVERIES.	Patentees.	RESIDENCE.	WHEN ISSUED.
Boots, machine for drawing	Lewis K. Dole & Na-		
Boots, machine for turning boot	thaniel Pickard	Rowley, Mass	July 12, 1834
legs.	S. C. Blodget & Henry Boynton	Rowley, Mass	Sept. 26, 1835
legs	Thomas N. Saddler	Spencer, Mass	Nov. 8, 1836
Boots, making	James Turnbull	Philadelphia, Pa	June 24, 1843
Boots, manufacturing	Alden Burdick	Carroll, N. Y	Oct. 31, 1829
Boots, manufacturing, by the hinge or boot cramp.	Nathan Ayer	St. Johnsbury, Vt	June 19, 1885
Boots, mode of lasting	David Harrington	German Flats, N. Y.	Aug. 26, 1845
Boot patters	Joseph Rider	Wooster, Ohio	June 2, 1845
Boots and shoes*	Isaiah Gale John Dick	Natchez, Miss Philadelphia, Pa	July 11, 1644 Nov. 4, 1842
Boots and shoes	Joshua S. Bowler	Lynn, Mass	Nov. 21, 1842
by means of caoutchouc	Samuel D. Daned	Dhiladalahia Da	Annil 4 1996
Boots and shoes, crimping	Samuel D. Breed Ebenezer G. Pomeroy	Philadelphia, Pa Lancaster, Ohio	April 4, 1835 July 27, 1826
Boots and shoes, cutting	Samuel Marshall	Philadelphia, Pa	June 23, 1829
Boots and shoes, cutting Boots and shoes, cutting channels	Jeremiah B. Keen	Bridgeton, N. J	June 21, 1839
for seams	Jas. Cole	E. Bloomfield, N. Y.	Nov. 26, 1830
Books and shoes, cutting & forming	Joshua Hall	Fredericktown, Md.	Dec. 15, 1815
Boots and shoes, cutting by rule Boots and shoes, gum elastic, at-	Simeon Hart	Monkton, Vt	Mar. 3, 1821
taching soles to	Wait Webster	New York	May 19, 1832
Boots and shoes, gum elastic, at-			
Boots and shoes, from India rub-	Nathaniel Ruggles	Bridgeport, Ct	Feb. 20, 1833
ber leather	Edwin M. Chaffee	Roxbury, Mass	May 17, 1834
Boots and shoes, heels of	Samuel Warner	Roxbury, Mass Lowell, Vt)	_
	J. Hodgkin	Westfield, Vt Watervliet, N. Y.	July 1, 1840
Boots and shoes, heel plates for	William Lewis & Wm.	Water vines, 24. 1. j	
Boots and shoes, lasting	H. Lewis	New York	Oct. 31, 1839
Boots and shoes, manufacturing.	Silas Hart	New Haven, N. Y Philadelphia, Pa	June 20, 1846 Aug. 10, 1791
Boots and shoes, manufacturing	Dean Howard	Massachusetts	April 10, 1800
Boots and shoes, manufacturing Boots and shoes, manufacturing	Jno. Bedford	Philadelphia, Pa	July 16, 1806
Boots and shoes, manufacturing.	Wm. Montgomery Eli Barnum	Philadelphia, Pa Massachusetts	Feb. 11, 1867 Jan. 9, 1868
Boots and shoes, manufacturing	Samuel Chamberlain	Boston, Mass	Nov. 21, 1808
Boots and shoes, manufacturing	Sam'l B. Hitchcock & John Bement	Homer N V	Toler 9A 1911
Boots and shoes, manufacturing.	Elijah Thayer	Homer, N. Y Leicester, Mass	
moots and shoes, manufacturing.	Daniel Peck	New York	Aug. 14, 1821
Boots and shoes, manufacturing Boots and shoes, manufacturing	Ebenezer Martin Jno. Trask	Salem, N. J	Jan. 12, 1824
Boots and shoes, manufacturing.	Elijah Thayer	Leicester, Mass	
Boots and shoes, manufacturing.	Moses Rennock	E. Marlborough, Pa.	Dec. 14, 1836
Boots and shoes, manufacturing Boots and shoes, manufacturing	Caleb A. Ore Sam'l Gerhard & Jos.	Philadelphia, Pa	May 5, 1831
<u> </u>	Vanneman	Camden, N. J	July 26, 1836
Boots and shoes, manufacturing	Ansel Thayer	Braintree, Mass	April 24, 1841
Boots and shoes, manufacturing, elastic	Pierre Azam	Baltimore, Md	Sent. 24 1816
Doors and shoes, manufacturing.			•
elastic hair soles	Wm. Francis	Boston, Mass	June 23, 1812
rurred	Samuel Eells	Connecticut.	Feb. 24, 1846
Doors and shoes, manufacturing.			
iron bound	Ephraim Twombly Wm. G. Crease and J.	Norway, Mass	Aug. 28, 1812

^{*} Antedated Oct. 15, 1842.

ENVENTIONS OR DISCOVERIES.	Patentee-	residence.	When incues
Seats and shoes manufacturing	,	-	
Boots and shoes, manufacturing, metallic bottoms	Samuel Millikin	Lexington, Mass	Feb. 10, 180
Boots and shoes, manufacturing, with nails and pegs	Nicholson Millis	New York	Mar. 21, 183
Boots and shoes, manufacturing, from skins with hair on.	Brown, and Henry		4 340 404
Boots and shoes, manufacturing,	Whitman'	Norfolk, Ct	
water proof	Aaron Dana	Boston, Mass	
water proof	Arnold Buffum		·
with wooden pegs and screws	Robert U. Richards		
Boots and shoes, mode of holding Boots and shoes, nailing on the		-	_
soles	Jno. Bedford	Philadelphia, Pa	June 2, 181
Boots and shoes, pegged	Samuel Preston Ava Woodruff		Mar. 8, 18; Sept. 6, 18;
Boots and shoes, pegging	Nathan A. Fisher		
Boots and shoes, pegging, machine for	Nathan Leonard	Merrimack, N. H	June 11, 189
Boots and shoes, pegging, machine for	William B. Randall	Fayette, Me	Aug. 6, 18
Boots and shoes, pegging, machine for	Frederick Gray	Rowley, Mass	April 6, 18
Boots, shoes, socks, &c., water proof	William Atkinson	Tewkesbury, Mass.	Mar. 7 18
Boot and shoe soles, cutting Boots and shoes, soles of	Jonathan Hill Rob't W. Ruggles, as'e	Billerica, Mass	Mar. 31, 18
	of Walter Hunt	New York	
Boots and shoes, soles of Boots and shoes, soling and heel-	Wm. H. Elsegood Wales Tileston	Philadelphia, Pa	
ing with wooden or metal pegs.  Boots and shoes, taps for soles  Boots and shoes, tassels and cords	Stillman Knowlson	Charlemont, Mass Athol, Mass	
for	Alfred Janes	Hartford, Ct	Mar. 1, 18
Boot and shoe trees*	Jonathan Russell	Philadelphia, Pa	July 7, 18
Boots and shoes, water proof	Patrick G. Nagle		
Boots and shoes, water proof	Samuel Eells, 2d		April 23, 18
Boots and shoes, water proof Boots and shoes, water proof, per-	J. Rynex, J. Haskins,	_	
petual polished . Boots, for stages	& Samuel Knower Peter Laporte	Boston, Mass Augusta co., Va	
Boots, treeing	Elias Hall, jr		
Boot trees	Henry B. Miller	Mayville, N. Y	
Boot trees	Joshua Ayars		
Boot trees	M. Matthews	Wayne, Ohio	Feb. 25, 18
Boot trees	David Hastings	Deerfield, Mass	Dec. 15, 18
Boot trees, screw	George Nicol		Sept. 8, 18
Boots, tucking machine	Sherburne C. Blodget.		June 11, 18
Boots, turning			Mar. 4, 10
Buckles for harness	Kasson Frazer		Mor 96 16
Buckles for harnessButtons, forming worked, on the			l <b>-</b>
head, handles, &c., of whips †			Feb. 21, 18
Cleansing leather	Robert Emes Nathan Post		Nov. 21, 18 July 22, 18
Collars, horse, constructing Coloring and finishing leather		Attica, N. Y	
Coloring and finishing leather		Balleton N Y	July 13 15
Crimps for collar-pad Crimping leather	Lucius Upham		Jan. 9 18
Crimping leather		Keene, N. H	Mar. 21 18
Crimping leather:			Mar. 26. 18
Colombia to to at	Nat' aniel Woodhury	Calaia Maine	Aug 16 18
Crimping leather			

^{*} Antedated July 4, 1846. † Additional improvement, April 1, 1842. ‡ Antedated September 26,1833

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INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	
Crimping leather, clamps for		Boston, Mass	Mar. 16, 1841
Crimping leather, machine, regu-	T. b Canadania	Starling Man	M 20 1020
lating the jaws	John Goodwin, jr	Sterling, Mass	May 30, 1839
Crimping tool		Berlin, N. Y	Oct. 3, 1846
Curriers' beam, constructing the face of	Ishahad I indees	Charlestown, Mass.	Jan. 27, 1841
Curriers' knife	Seth Paranna	Parsonfield, Mass	Oct. 25, 1810
Curriers' knife		Brookfield, Conn	July 6, 1820
Curriers' knife		Lancaster, N. H	Nov. 3, 1825
Curriers' knife		Littleton, N. H	
Curriers' knife	lasac H. Harrington	Albany, N. Y	
Curriers' knife	Thomas C. Burr	Clark county, Ky	
Curriers' knife	J. Gleim and J. Herd.	Urbanna, Ohio	
Curriers' knife, constructing and			•
grinding		New York	Nov. 13, 1826
Curriers' knife, and double trim-			•
mer	Luther Townsend	Farmington, Maine.	Jan. 16, 1835.
Curriers' knife, sharpening	James Bachelder	Lancaster, N. H	Nov. 9, 1824
Curriers' knife, tempering	Daniel S. Delano	Cornwall, Conn	April 6, 1833
Curriers' and tanners' knife, shar-	,	·	
pening	Warren Egleston	Troy, N. Y	Jan. 8, 1839
Currying and finishing leather	Samuel Parker	Rillorica Mage	July 9, 1808
Currying and finishing leather			April 26, 1809
Cutting leather	George P. Mitchell	Burnington, N. J	May 15, 1828.
Cutting leather	Levi N. Leland	Grafton, Mass	
Cutting leather	Joseph S. Bishop	Wayne, Maine	
Cutting leather into soles	Elias F. Ingalls	Haverhill, Mass	
Cutting leather at one operation	George Domett	Boston, Mass	July 20, 1831
Cutting leather, punching		Newark, N. J	July 30, 1831 Mar. 28, 1828
Cutting sole leather, knife or knives		Henrietta, N. Y	T.J. 00 1010
Dying and polishing leather	Lemuel Genilland	Windsor, Vt	July 22, 1819 June 27, 1827
Dying and polishing leather	Tamas Purm	Boston, Mass	
Finishing leather	Cushman Resett	Johnstown, N. Y Boston, Mass	
Glazed leather	E G Adams	Decatur, Ga	June 30, 1836
Handling leather	William G Waterman	Sullivan, N. Y	
Handling leather	Iohn G. Tibbets	New York	
Harness, breast-plate for horses	Abel Post	Henrietta, N. Y	
Harness, bridles	Rob. Smether	Orange county, Va	
Harness, bridles	Peter Laporte	Richmond, Va	Aug. 15, 1812
Harness, bridles	Daniel H. Read	New York	Oct. 24, 1826
Harness, bridles	John C. Smith	Brookhaven, N. Y	Mar. 23, 1842
Harness, bridles	John C. Smith	Brookhaven, N. Y	Sept. 17, 1842
Harness, bridles, bits for	Henry Pierce	Sharon, Conn Bradford, Vt	Mar. 15, 1834
Harness, bridle bit for horses	Dan Shaw Balch	Bradford, Vt	Aug. 23, 1839
Harness, bridles, check and brace	William F. Pendleton.	King & Queen co. Va.	Feb. 20, 1833
Harness, carriage	Benjamin Merrick	Rutland county, Vt.	April 21, 1809
Harness, carriage, and saddlery	Washburn, Northrop		
-	Rockwell, and James		
Harness and carriage, safety Harness, check-hooks for	U. Walker	Castleton, Vt	Aug. 16, 1810
Harness and carriage, safety	Edwin Eastlack	Greenwich, N. J	Jan. 10, 1840
marness, check-nooks for	Abel B. Buell	vv estmoreland, N.Y.	MIRT. 13, 1844
Harness, collar for	Nother Post	Norfalls N V	Lug. 4, 1043
Harness, collars, blocking and		i	
stretching	Melvin Eddy Lyman and James H.	Į.	i
stitute for a buckle.  Harnesses, edging and preparing		Penfield, N. Y	Mar. 10, 1843
leather for	Samuel Wilson	Dansville N. V	May 9, 1846
Harness, fastenings Harness, hames, carriage	Warner Havden	New Milford Pa	Jan. 21, 1837
TT	Harrick Aiken	Reighton Mass	Mar 19 1893
Harness, hames, fastening, horse.			INICIA I AND I CAN

<b>Sec. 1</b>		<del></del>	
INVENTIONS OR DISCOVERIES.	Patrnters.	RESIDENCE.	when issued.
Harness, hames, for	Kasson Frazer	Fayetteville, N. Y	Sept. 26, 1846
collars	Sereno Norton	EastBloomfield, N. Y.	June 12, 1836
Harness, horse blinds	Seth Boyden	Newark, N. J Pennsylvania	April 10, 1824 April 10, 1800
Harness, horse collars	Caleb Angevine	New York	Oct. 27, 1835
Harness, horse collars	Henry C. Call	Sterling, Conn	Nov. 14, 1835
Harness, horse collars	Horace Holton	Rochester, N. Y	May 16, 1833
Harness, horse collars	Ebenezer Whitney	Chenango, N. Y	June 4, 1834
Harness, horse collars	John Hopkinson	Warren county, Ohio	Jan. 23, 1836
Harness, horse collars, cutting tops	Timeshan Damina	Post Hondon Come	Man 6 1025
Of	Timothy Deming G. Warner & Robinson	East Hartford, Conn. Canajoharie, N. Y	Mar. 6, 1835 June 22, 1836
Harness, horse collars, machine.	Dyer Cleveland	Owego, N. Y	Sept. 13, 1834
Harness, horse collars, cutting the	Dyor Ciorciand	0 11050, 211 211	20p. 10, 100 P
leather of	Thomas Parkinson	Sparta, N. Y	July 17, 1841
Harness, horse collars, stretching	Henry Barton	West Carlisle, Ohio.	July 9, 1838 Jan. 30, 1841
Harness, horse collars, stretching	James B. Osborn	Reddington, N. J	
Harness, horse-hames.*	Nathan Post	Madrid, N. Y	June 15, 1844
Harness, horse-hames	Joseph K. Slater and Sylvanus G. Pratt	Boston, Mass	Sept. 20, 1844
Harness, for horses in shafts	Robert Beale	Washington, D. C.	June 15, 1837
Harness, nets, fly, for horsest	Henry Korn	Philadelphia, Pa	Sept. 12, 1829
Harness, nets, fly, for horses	Peter Minster	Philadelphia, Pa	July 20, 1831
Harness, nets, fly, for horses	William H. Horstman	Philadelphia, Pa	July 28, 1831
Harness, nets, fly, for horses	Henry Korn	Philadelphia, Pa	Dec. 8, 1831
Harness, nets, fly, for horses	Henry Korn	Philadelphia, Pa	June 22, 1832
Harness, nets, fly, for horses Harness, pad, brace, or stiffener	Henry Korn Silas Lamson	Philadelphia, Pa Sterling, Mass	July 2, 1836 Jan. 5, 1833
Harness, pad, clastic, water proof	A. Deitz	Albany, N. Y	Oct. 14, 1836
Harness, riveting	William Dukehart	Baltimore, Md	Mar. 30, 1836
Harness saddles	John T. Dennison	Lynde, N. Y	Nov. 20, 1846
Harness, safety	George Rogers	Baltimore, Md	July 22, 1833
Harness, stuffing cellars for	Thomas Wiles	Somerset, Ohio	Mar. 21, 1845
Harness, stuffing and attetching col-	Wade Haworth	Dayton, Ohio	May 7, 1845
Harness, trace and bar, elastic, by springs.	Benjamin Giddins	Baltimore, Md	-
Harness, trace and swingletrees,	- , <i>a</i> n <i>a</i>		
spiral springs	John Sherfy	Uniontown, Md	
Hats of leather, skins, &c., machi-	William S. Robinson.	Taunton, Mass	Sept. 22, 1829
nery for forming	Randal Fish William Brown Wm.M. D. Hasbrouck	Thompson, N. Y	Oct. 12, 1844 Feb. 9, 1844
Hides, breaking	and Jac. Diefenback. Hezekiah S. Clarke Nathaniel Kirk and Sa-	Bloomsbury, Pa Randolph co., N. C.	Feb. 8, 1819 Dec. 22, 1826
Hides, breaking and fleshing	muel C. Clarke Anthony Smith	St. Clairsville, Ohio. Cumberland Valley,	July 18, 1812
Hides, breaking, hairing, fleshing.	T. E. Barker and L. S. Fordham	Pa Hudson, N. Y	Aug. 26, 1846 Oct. 15, 1812
Hides, breaking and softening Hides, constructing rollers for pressing	Eli Kendall	Newton, Mass	June 10, 1837
pressing		Maryland, N. Y	Dec. 31, 1839
Hides, dressing	George Welty	West Newton, Pa	June 13, 1846 April 17, 1828
Hides, handling, reel for Hides, protecting against moths	William Brown Samuel Storm	Frankford, Pa New York	Feb. 17, 1827
Hides, raw and leather, cutting into strips for the manufacture of ropes.	Philip B. Holmes and	Charlestown, Mass.	Jan. 9, 1841
- Topon			
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^{*} Additional improvement, July 14, 1846.

[†] Reissued, April 19, 1834.

moventions of discoveries.	PATR <b>HTEMS.</b>	RB01DENCE.	WHEN MOURD.
Hidden, raw, machine for cutting	William Marshall and		
TTides and skips, headling in ten-		Brooklyn, N. Y	Sept. 4, 1844
Hides and skins, handling in tan- ning.	Augustus H. Bescher-	New York, N. Y	Nov. 14, 1846
Hides, scraping*	Reuben Shailer	Haddam, Conn	June 19, 1837
Hides, softening	Willis Berry	New Sharon, Maine	Mar. 6, 1833
Hides, softening	Isaac Robinson William Edwards	Masonville, N. Y	Feb. 13, 1831
Hides, softening, dry	Benjamin Aylsworth.		
Hides, softening, and distending.	Daniel Krauser		
Hides, softening, fleshing, and	Ahnan MaMillan	Daleand N II	   Pab   4 1929
working, dry and slaughtered Hides, unhairing	James Banks	Dixmont Maine	June 30, 1836
Hooks, by which bits may be at-	Asahel A. Hotchkiss		
tached to bridles.	and Eben. Garnsay.	Sharon, Conn	Jan. 23, 1834
Hose, or leather tubes See Hose,	Class 11.		
Leather, dicing and polishing	Hulus and Henry	Boston and Woburn, Mass.	Mar 15 1845
Leather, extending and stretching	William Kumbel	New York, N. Y	April 11, 1846
Leather, fair, manufacturing			
Leather, hats, manufacturing of	James S. and William		
Tarahan India mahban hata mashi	Wilbert	Eden, N. Y	Sept. 4, 1841
Leather, India rubber hats, machi- nery for making	Sewall Gleason	New York, N. Y	Nov. 24, 1843
Leather, making	Robert Downey		
Leather, manufacturing	A. Hickman and E. L.		i
*	Davenport	Abington, Va	Aug. 1, 1838
Leather, pricking Leather, pricking	Samuel Sheldon Samuel Sheldon	Cincinnati, Onio	Oct. 10, 1040
Leather, rollers	John Gardner	Petersburg, Pa	April 25, 1843
Leather, rolling	Thos. J. Patterson, as-	l .	1
	signee of Wm. Co-	Manua Tana Da	0 01 1000
Leather splitting	Horace White	Mount Joy, Pa	Aug 2 1839
Leather, splitting	Horace White Alpha Richardson	Boston, Mass	Feb. 9, 1841
Leather, splitting	Alpha Richardson	Boston, Mass	Aug. 17, 1844
Leather, stitching	Samuel Sheldon	Cincinnati, Unio	Aug. 3, 1839
Leather, whitening	James C. Booth Abm. Pennock and J.		Dec. 5, 1540
147am pags	Sellers	Philadelphia, Pa	July 6. 1818
Mail bags	Sellers	Richmond, Va	May 5, 1824
Mail bags, bolt for	Ira Atkins	Hanover, N. H	Feb. 17, 1836
Mail bags, India rubber.— See	James Sellers & Abra-		Į.
Mail bags, mouth piece	ham L. Pennock	Philadelphia, Pa	June 12, 1840
Mail bag, way	ham L. Pennock Henry Johnson	Washington, D. C	April 25, 1846
Measuring and cutting leather	Thomas Howe Abel Bayard Moses Hall Robert Eames	Worcester, Mass	April 18, 1829
Morocco, polishing	Moses Hall	Charlestown Mass	Dec. 29, 1828
Morocco, polishing and dying Morocco, polishing and dicing	Robert Eames	Boston, Mass	Nov. 21, 1831
Morocco, polishing and graining.	Jacod Perkins	Boston, Mass	June 26, 1809
Morocco, polishing and graining.	Robert Eames	Boston, Mass	April 20, 1831
Preparing leather, belt and picker Pricking leather, for cards	John J. Travis Pliny Earle	Franklin, Ut	Dec. 22, 1828
Pricking leather	Robert U. Richards &	Massachuscus	Dec. 0, 1003
	Mills Richards	Norfolk, Ct	April 24, 1810
Pricking leather, for harness			
:	C. Carner, and John		Mar 00 1000
Punching holes in raw hides	C. Carner. William Angell.	Paineville, Ohio	July 19 1832
Punches, for straps	Charles Angell	Philadelphia, Pa	July 15, 1829
Roller, for preparing leather	Charles Angell William Edwards Harvey Paign	Northampton, Mass	Oct. 19, 1812
Rolling leather	Harvey Paign	Alexander, N. Y	Dec. 23, 1828
* Additional improvement Pr	) 	Antodated Contembe	- 20 1940

^{*} Additional improvement, February 9, 1841. ‡ Antedated September 21, 1840.

[†] Antedated September 30, 1840. || Antedated December 9, 1845.

Saddles, construction of. Samuel Ringgold. Fort McHenry, Md Saddles, and collars. Ebenezer Hale New York, N. Y Jan. 20, 1836 Saddles, double side. Hugh M. Rose. Lexington, Ky. June 19, 1824 Saddles, elastic seat. Jonathan Keedy. Russelville, Ky. Aug. 18, 1837 Saddles, elastic seat. William McCormick. Bath county. Ky. June 20, 1836 Saddles, elastic seat. William Harper. Nashville, Tenn. April 2, 1819 Saddles, elastic seat. Bushrod Smith. Romney, Va. Aug. 24, 1833 Saddles, ladies'. M. Jenkins. Attica, N. Y. July 1, 1836 Saddles, leather tree Mathias Haldeman. Trapp, Pa. Oct. 10, 1829 Saddles, riding. Alonzo R. Dinsmoor. Goffstown, N. H. Oct. 25, 1834 Saddles, seat, spring. Marshal Bayliss and Wm. Brannon. Fredericksburg, Va. May 16, 1835 Saddles, side. Olney Briggs. Schoharie, N. Y. Dec. 3, 1834 Saddles, spring. Charles Klasson. Baltimore, Md. May 22, 1816 Saddles, spring. Samuel M. Leaming. Lexington, Ky. July 6, 1818				
Rolling and shaving leather Thomas Chase. New York city Sept. 12, 1836 Saddles Glisska Walker. Aurora, N.Y. Nov. 16, 1797 Saddles Glisska Walker. New York. Aug. 38, 1821 Saddles Glisska Walker. New York. Sept. 30, 1835 Saddles Glisska Walker. New York. Jun. 20, 1835 Saddles Glisska Walker. New York. Jun. 20, 1835 Saddles Glisska Walker. Sept. 30, 1835 Saddles, seatic seat William McCormick. Saddles, seatic seat William McCormick. Saddles, seatic seat Walliam McCormick. Saddles, seatic seat Walliam McCormick. Saddles, seatic seat Walliam Haper. Nashville, Tenn. April 2, 1835 Saddles, spring Glisska Walker. Seating Glisska Walker. Saddles, spring Glisska Walker. Seatic seat Walliam Haper. Nashville, Tenn. April 2, 1835 Saddles, spring Glisska Walker. Seatic seat Walliam Haper. Nashville, Tenn. April 2, 1835 Saddles, spring Glisska Walker. Seatic seat Walliam Haper. Nashville, Tenn. April 2, 1835 Saddles, spring Glisska Walker. Seatic seat Walliam Haper. Nashville, Tenn. April 2, 1835 Saddles, spring Glisska Walker. Seatic seat Walker. S	ENTENTIONS OR DISCOVERIES.	PATENTENS.	r <b>esidence.</b>	when mayed.
Rolling and shaving leather Thomas Chase. New York city Sept. 12, 1836 Saddles Glisska Walker. Aurora, N.Y. Nov. 16, 1797 Saddles Glisska Walker. New York. Aug. 38, 1821 Saddles Glisska Walker. New York. Sept. 30, 1835 Saddles Glisska Walker. New York. Jun. 20, 1835 Saddles Glisska Walker. New York. Jun. 20, 1835 Saddles Glisska Walker. Sept. 30, 1835 Saddles, seatic seat William McCormick. Saddles, seatic seat William McCormick. Saddles, seatic seat Walliam McCormick. Saddles, seatic seat Walliam McCormick. Saddles, seatic seat Walliam Haper. Nashville, Tenn. April 2, 1835 Saddles, spring Glisska Walker. Seating Glisska Walker. Saddles, spring Glisska Walker. Seatic seat Walliam Haper. Nashville, Tenn. April 2, 1835 Saddles, spring Glisska Walker. Seatic seat Walliam Haper. Nashville, Tenn. April 2, 1835 Saddles, spring Glisska Walker. Seatic seat Walliam Haper. Nashville, Tenn. April 2, 1835 Saddles, spring Glisska Walker. Seatic seat Walliam Haper. Nashville, Tenn. April 2, 1835 Saddles, spring Glisska Walker. Seatic seat Walker. S	Holling leather	T M Mal anahin		
Rolling and shaving leather	TOURIS ICACIO.		Sunderland, Vt.	April 28, 1836
Saddles Bliska Walker Aurora, N. Y. Nov. 16, 1830 Saddles Peter Dixon Philadelphia, Pa. April 25, 1830 Saddles Those G. Prettyman New York. Aug. 28, 1831 Saddles William H. Collins New York. Sept. 30, 1835 Saddles William H. Collins Cincinnati, Ohio May 27, 1835 Saddles Levi Sherman Bridgeport, Ct. Jan. 18, 1835 Saddles Benjamin Craft. Reading, Pa. June 20, 1836 Saddles David Ivin Maison, Wis. Ter. April 13, 1842 Saddles David Ivin Maison, Wis. Ter. April 11, 1842 Saddles Orren McCluer. Predonia, N. Y. Mar. 25, 1840 Saddles, Construction of. Samuel Ringgold. Fort McFlenry, Mol. Ct. 7, 1845 Saddles, and collars. Ebenezer Hale. New York, N. Y. Jan. 20, 1846 Saddles, bow and worm, spring for Jonathan Keedy. Russelville, Ky. June 29, 1845 Saddles, elastic seat. Peter H. Martin Naahville, Tenn April 2, 1849 Saddles, leastic seat. Peter H. Martin Naahville, Tenn April 2, 1849 Saddles, leastic seat. Peter H. Martin Naahville, Tenn April 2, 1849 Saddles, side. Bushrod Smith Romey, Va. Aug. 24, 1833 Saddles, side. E. Bridswell. Bayliss and Wm. Brannon.  Arahal Bayliss and Wm. Brannon. Aurahal Bayliss and Wm. Brannon. Aurahal Bayliss and Wm. Brannon. Aurahal Saddles, pring. Adam Hicknan Abrahal Saddles, spring. Adam Hicknan Abrahal Parper. Nathan V. Conklin Saddles, spring. Adam Hicknan Abrahal Parper. Marhal Charles Klasson. Saddles, spring. Adam Hicknan Abrahal Parper. Marhal Charles Klasson. Philadelphia, Pa. June 26, 1835 Saddles, spring. Adam Hicknan Abrahal Parper. Marhal Charles Klasson. Philadelphia, Pa. June 26, 1835 Saddles, spring. Adam Hicknan Abrahal V. V. Mar. 27, 1842 Saddles, spring. Adam Hicknan Abrahal V. V. Mar. 21, 1842 Saddles, spring. Adam Hicknan Abrahal V. V. Mar. 21, 1843 Saddles, spring. Abraham Freed. Martin, Abrahal V. Nov. 26, 183	Rolling and shaving leather	Thomas Chase	New York city	
Saddles Bliska Walker Aurora, N. Y. Nov. 16, 1830 Saddles Peter Dixon Philadelphia, Pa. April 25, 1830 Saddles Those G. Prettyman New York. Aug. 28, 1831 Saddles William H. Collins New York. Sept. 30, 1835 Saddles William H. Collins Cincinnati, Ohio May 27, 1835 Saddles Levi Sherman Bridgeport, Ct. Jan. 18, 1835 Saddles Benjamin Craft. Reading, Pa. June 20, 1836 Saddles David Ivin Maison, Wis. Ter. April 13, 1842 Saddles David Ivin Maison, Wis. Ter. April 11, 1842 Saddles Orren McCluer. Predonia, N. Y. Mar. 25, 1840 Saddles, Construction of. Samuel Ringgold. Fort McFlenry, Mol. Ct. 7, 1845 Saddles, and collars. Ebenezer Hale. New York, N. Y. Jan. 20, 1846 Saddles, bow and worm, spring for Jonathan Keedy. Russelville, Ky. June 29, 1845 Saddles, elastic seat. Peter H. Martin Naahville, Tenn April 2, 1849 Saddles, leastic seat. Peter H. Martin Naahville, Tenn April 2, 1849 Saddles, leastic seat. Peter H. Martin Naahville, Tenn April 2, 1849 Saddles, side. Bushrod Smith Romey, Va. Aug. 24, 1833 Saddles, side. E. Bridswell. Bayliss and Wm. Brannon.  Arahal Bayliss and Wm. Brannon. Aurahal Bayliss and Wm. Brannon. Aurahal Bayliss and Wm. Brannon. Aurahal Saddles, pring. Adam Hicknan Abrahal Saddles, spring. Adam Hicknan Abrahal Parper. Nathan V. Conklin Saddles, spring. Adam Hicknan Abrahal Parper. Marhal Charles Klasson. Saddles, spring. Adam Hicknan Abrahal Parper. Marhal Charles Klasson. Philadelphia, Pa. June 26, 1835 Saddles, spring. Adam Hicknan Abrahal Parper. Marhal Charles Klasson. Philadelphia, Pa. June 26, 1835 Saddles, spring. Adam Hicknan Abrahal V. V. Mar. 27, 1842 Saddles, spring. Adam Hicknan Abrahal V. V. Mar. 21, 1842 Saddles, spring. Adam Hicknan Abrahal V. V. Mar. 21, 1843 Saddles, spring. Abraham Freed. Martin, Abrahal V. Nov. 26, 183	Saddles	Thomas Stickney	Massachusetts	
Saddles	Saddles	Elisha Walker	Aurora, N Y	Nov. 16, 1820
Saddies William H Collins Cincinnati, Ohio. May 27, 1836 Saddies William H Collins Cincinnati, Ohio. May 27, 1836 Saddies Levi Sherman. Bridgeport. Ci. Jan. 18, 1831 Saddies. Orthow S. Callinan. Stautton, Va. Jule 20, 1836 Saddies. David Irvin. Balibrook, Ohio. April 23, 1842 Saddies. Orthow S. Callinan. Stautton, Va. Jule 11, 1832 Saddies. David Irvin. Balibrook, Ohio. April 23, 1842 Saddies, Construction of. Samuel Ringold. Fort McHenry, Md Carl. 1844 Saddies, Construction of. Samuel Ringold. Fort McHenry, Md Carl. 1844 Saddies, Construction of. Samuel Ringold. Fort McHenry, Md Carl. 1844 Saddies, Lestic Seat. Benjamin Suits. Chittenango, N. Y. Saddies, Lestic Seat. William McCormick Balibrook, Nr. Y. Jan. 20, 1836 Saddies, elastic seat. William Harper. Saddies, elastic seat. William Harper. Saddies, leather tree. Mathias Haldeman. Tapp. Pa. Oct. 1823 Saddies, leather tree. Mathias Haldeman. Tapp. Pa. Oct. 1823 Saddies, leather tree. Mathias Haldeman. Tapp. Pa. Oct. 1823 Saddies, leather tree. Mathias Haldeman. Tapp. Pa. Oct. 1823 Saddies, side. Saddies, Spring. Saddies, Saddies, Spring. Saddies, Saddies, Spring. Saddies, Saddies, Spring. Molecular Saddies, Saddies, Spring. Molecular Saddies, Saddies, Spring. Molecular Saddies, Spring Saddies, Spring Saddies, Spring Saddies, S	Saddles	Peter Dixon	Philadelphia, Pa	April 25, 1821
Saddies William H Collins Cincinnati, Ohio. May 27, 1836 Saddies William H Collins Cincinnati, Ohio. May 27, 1836 Saddies Levi Sherman. Bridgeport. Ci. Jan. 18, 1831 Saddies. Orthow S. Callinan. Stautton, Va. Jule 20, 1836 Saddies. David Irvin. Balibrook, Ohio. April 23, 1842 Saddies. Orthow S. Callinan. Stautton, Va. Jule 11, 1832 Saddies. David Irvin. Balibrook, Ohio. April 23, 1842 Saddies, Construction of. Samuel Ringold. Fort McHenry, Md Carl. 1844 Saddies, Construction of. Samuel Ringold. Fort McHenry, Md Carl. 1844 Saddies, Construction of. Samuel Ringold. Fort McHenry, Md Carl. 1844 Saddies, Lestic Seat. Benjamin Suits. Chittenango, N. Y. Saddies, Lestic Seat. William McCormick Balibrook, Nr. Y. Jan. 20, 1836 Saddies, elastic seat. William Harper. Saddies, elastic seat. William Harper. Saddies, leather tree. Mathias Haldeman. Tapp. Pa. Oct. 1823 Saddies, leather tree. Mathias Haldeman. Tapp. Pa. Oct. 1823 Saddies, leather tree. Mathias Haldeman. Tapp. Pa. Oct. 1823 Saddies, leather tree. Mathias Haldeman. Tapp. Pa. Oct. 1823 Saddies, side. Saddies, Spring. Saddies, Saddies, Spring. Saddies, Saddies, Spring. Saddies, Saddies, Spring. Molecular Saddies, Saddies, Spring. Molecular Saddies, Saddies, Spring. Molecular Saddies, Spring Saddies, Spring Saddies, Spring Saddies, S	Saddles	Then G. Prottermen	New York	
Saddles   Levi Sherman   Brideport, C. Jan. 18, 1831   Saddles   Levi Sherman   Brideport, C. Jan. 18, 1831   Saddles   Saddles   C. Jan. 18, 1831   Saddles   Saddles   C. Jan. 18, 1831   Saddles   Saddles   Saddles   C. Jan. 18, 1831   Saddles   Sad	Saddles	Lacy White	New York	
Saddles   Levi Sherman   Brideport, C. Jan. 18, 1831   Saddles   Levi Sherman   Brideport, C. Jan. 18, 1831   Saddles   Saddles   C. Jan. 18, 1831   Saddles   Saddles   C. Jan. 18, 1831   Saddles   Saddles   Saddles   C. Jan. 18, 1831   Saddles   Sad	Saddles	William H. Collins	Cincinnati, Ohio	
Saddles.         Benjamin Craft.         Reading, Pa.         June 29, 1836           Saddles.         Otho W. S. Callihan.         Saunton, Va.         July 1, 1836           Saddles.         David Irvin.         Madison, Wis. Ter.         April 11, 1836           Saddles.         Preser D. Ward.         Ballbrook, Ohio.         April 123, 1842           Saddles.         Benjamin Suits.         Chritenango, N.Y.         Mar. 25, 1840           Saddles, construction of.         Samuel Ringgold.         Fort McHenry, Md         Chittenango, N.Y.         Aug. 9, 1845           Saddles, double side.         Hugh M. Rose.         Lexington, Ky.         June 19, 1894           Saddles, bow and worm, spring for Saddles, elastic seat.         William McCormick         New York, N.Y.         Jan. 29, 1836           Saddles, elastic seat.         William McCormick         M. Jenkins.         Bath county, Ky.         June 19, 1894           Saddles, sladies?         M. Jenkins.         Athias Haldeman.         Saddles, sladies.         Foet Mathias Haldeman.         Saddles, sladies.         M. Jenkins.         Attica, N.Y.         July 1, 1836           Saddles, side.         Johney Briggs.         Alonzo R. Dinsmoor.         New Orleans.         Jun. 21, 1837           Saddles, side.         Conley Briggs.         Schoharie, N.Y.	Saddles	l Alexander Marshall	Pikeland t'nghin. Pa	
Saddles	Saddles	Levi Sherman	Bridgeport, Ct	
Saddles. David Irvin. Madison, Wis. Ter. April 11, 1842 Saddles. Orren McCluer Foster D. Ward. Ballbrook, Ohio. April 23, 1842 Saddles. Orren McCluer Fredonia, N. Y. Mar. 25, 1840 Saddles, construction of. Samuel Ringgold. Fredonia, N. Y. Mar. 25, 1840 Saddles, double side. Hugh M. Rose. Lexington, Ky. June 19, 1835 Saddles, delastic seat. William McCormick. Saddles, elastic seat. William Harper. Saddles, elastic seat. Peter H. Martin. Nashville, Tenn. April 2, 1819 Saddles, elastic seat. Peter H. Martin. Nashville, Tenn. April 2, 1819 Saddles, elastic seat. Peter H. Martin. Nashville, Tenn. April 2, 1819 Saddles, elastic seat. M. Jenkins. Alonzo R. Dinsmoor Saddles, iding. M. Jenkins. Alonzo R. Dinsmoor Saddles, riding, of gum etastic webbing. A. L. Van Horn. Philadelphia, Pa. June 26, 1835 Saddles, side. Olney Briggs. Schoharie, N. Y. May 16, 1835 Saddles, spring. Samuel M. Leaming Saddles, spring. Charles Klasson. Baltimore, Md. Mary 22, 1816 Saddles, spring. Nathan W. Conklin. Jamaica, N. Y. May 16, 1835 Saddles, spring. Nathan W. Conklin. Jamaica, N. Y. May 16, 1835 Saddles, spring. Nathan W. Conklin. Jamaica, N. Y. May 22, 1816 Saddles, spring. Nathan W. Conklin. Jamaica, N. Y. May 16, 1835 Saddles, spring. Nathan W. Conklin. Jamaica, N. Y. May 16, 1835 Saddles, spring. Nathan W. Conklin. Jamaica, N. Y. May 16, 1835 Saddles, spring. John G. Manlove. Baltimore, Md. May 22, 1816 Saddles, spring. Herry Sheets. Staunton, Va. May 23, 1837 Saddles, spring. Herry Sheets. Staunton, Va. May 21, 1848 Saddles, spring. Herry Sheets. Staunton, Va. May 23, 1837 Saddles, spring. Herry Sheets. Staunton, Va. May 24, 1833 Saddles, spring. Herry Sheets. Staunton, Va. May 24, 1833 Saddles, spring. Herry Sheets. Staunton, Va. May 24, 1833 Saddles, spring. Herry Sheets. Staunton, Va. May 24, 1849 Saddles, spring. Robert Spencer. New York, N. Y. Dov. 26, 1835 Saddles, spring. Adam Herry Sheets. Staunton, Va. May 24, 1849 Saddles, spring seat, riding. Robert Wilson. Mount Picasant, Orio. Mar. 29, 1847 Saddles, spring seat, ridin	Saddles	Benjamin Craft	Reading, Pa	
Saddles.   Foster D. Ward.   Ballbrook, Ohno.   April 23, 1842 Saddles.   Crren McCluer   Fredonia, N. Y.   Aug. 9, 1845 Saddles, and collars.   Ebenezer Hale.   New York, N. Y.   Jun. 20, 1836 Saddles, and collars.   Ebenezer Hale.   New York, N. Y.   Jun. 20, 1836 Saddles, elastic seat.   Useh M. Rose.   Lexington, Ky.   June 19, 1844 Saddles, elastic seat.   William McCormick   Saddles, elastic seat.   William McCormick   Nashville, Tenn.   April 2, 1819 Saddles, elastic seat.   Peter H. Martin.   Nashville, Tenn.   Feb. 23, 1820 Saddles, elastic seat.   Buskrod Smith.   Romey. Va.   Aug. 24, 1833 Saddles, elastic seat.   Mathias Haldeman.   Nashville, Tenn.   Feb. 23, 1820 Saddles, riding.   Alonzo R. Dinsmoor.   Saddles, spring.   Alonzo R. Dinsmoor.   Saddles, spring.   Charles Klasson.   Saddles, spring.   Samuel M. Leaming.   Saddles, spring.   Charles Klasson.   Saddles, spring.   Alonzo R. Dinsmoor.   Saddles, spring.   Alonzo R. Dinsmoor.   Saddles, spring.   Charles Klasson.   Saddles, spring.   Charles Klasson.   Saddles, spring.   Saddles, spring.   Charles Klasson.   Saddles, spring.   Alonzo R. Dinsmoor.   Saddles, spring.   Charles Klasson.   Saddles, spring.   Saddles, sprin	Saddles	David Irvin	Madigan Wig Ton	
Saddles	Saddles	Foster D. Ward	Ballbrook Ohio	April 23, 1842
Saddles	Saddles	Orren McCluer	Fredonia. N. Y	Mar. 25, 1840
Saddles, construction of. Samuel Ringgold Fort McHenry, Md Oct. 7, 1844 Saddles, and collars . Ebenezer Hale . New York, N. Y. Jan. 20, 1836 Saddles, double side . Hugh M. Rose . Lexington, Ky June 19, 1824 Saddles, elastic seat . William McCormick . William McCormick . Saddles, elastic seat . William McCormick . Saddles, elastic seat . William Harper . Nashville, Tenn . April. 2, 1819 Saddles, elastic seat . Bushrod Smith . Romney, Va . Aug. 24, 1833 Saddles, ladies' . M. Jenkins . Attica, N. Y. July 1, 1836 Saddles, ladier' . Mathias Haldeman . Trapp, Pa . Oct. 10, 1829 Saddles, riding . Marshal Bayliss and Wm. Brannon . Goffstown, N. H. Oct. 25, 1834 Saddles, seat, spring . Marshal Bayliss and Wm. Brannon . Fredericksburg, Va . May 16, 1835 Saddles, spring . Charles Klasson . Baltimore, Md . May 26, 1835 Saddles, spring . Samuel M. Leaming . Sandles, spring . Doel Woodward . Marshaltown, Pa . Qet. 6, 1835 Saddles, spring . Adam Hickman . Abingdon, Va . Nov. 26, 1835 Saddles, spring . Doel Woodward . Marshaltown, Pa . Qet. 6, 1835 Saddles, spring . Doel Woodward . Saddles, spring . Doen G. Manlove . Saddles, spring . Doen G. Marcham Freed . Marcham . Nov. 26, 1835 Saddles, spring . Doen G. Manlove . Saddles, spring . Doen G. Marcham . Nov. 26, 1835 Saddles, spring . Doen G. Manlove . Saddles, spring . Doen G. Marcham . Nov. 26, 1835 Saddles, spring . Doen G. Manlove . Saddles, spring . Doen G. Marcham . Nov. 26, 1835 Saddles, spring . Doen G. Marcham . Nov. 26, 1835 Saddles, spring . Doen G. Marcham . Nov. 26, 1835 Saddles, spring . Doen G. Marcham . Nov. 26, 1835 S	Stadelles	Benjamin Suits	Chittenango, N. Y.	Aug. 9, 1845
Saddles, double side. Hugh M. Rose. Lexington, Ky. June 19, 1834 Saddles, show and worm, spring for Saddles, elastic. William McCormick. William Harper. Nashville, Tenn. April 2, 1819 Saddles, elastic seat. William Harper. Nashville, Tenn. Feb. 23, 1830 Saddles, elastic seat. Bushrod Smith. Romney, Va. Aug. 18, 1837 Saddles, leather tree. Mathins. Mathville, Tenn. Feb. 23, 1830 Saddles, leather tree. Mathins. Haldeman. Trapp, Pa. Oct. 10, 1829 Saddles, riding, of gum elastic webbing. Alonzo R. Dinsmoor. Saddles, riding, of gum elastic webbing. Alonzo R. Dinsmoor. Saddles, seat, spring. Marshal Bayliss and Wm. Brannon. Fredericksburg, Va. May 16, 1835 Saddles, side. Clarkes Klasson. Baltimore, Md. May 22, 1816 Saddles, spring. Samuel M. Leaming. Lexington, Ky. July 6, 1818 Saddles, spring. Nathan W. Conklin. Jamaica, N. Y. Mar. 27, 1924 Saddles, spring. Joel Woodward Marshaltown, Pa. Qu. 24, 1833 Saddles, spring. Charles Bates. Staunton, Va. Nov. 26, 1835 Saddles, spring. Gharles Bates. Staunton, Va. Nov. 28, 1835 Saddles, spring. Henry Sheets. Staunton, Va. Nov. 28, 1835 Saddles, spring. Hong. Marnoc. Fisher. Waynestown, Pa. April 29, 1837 Saddles, spring. Hong. Marnoc. Fisher. Waynestown, Pa. April 29, 1837 Saddles, spring. Hong. Marnoc. Fisher. Waynestown, Pa. April 29, 1837 Saddles, spring. Hong. Marnoc. Fisher. Warnwick, R. I. Nov. 25, 1837 Saddles, spring. Hong. Marnoc. Fisher. Warnwick, R. I. Nov. 25, 1837 Saddles, spring. Hong. More Baldwin. Cincinnati, Ohio. April 29, 1837 Saddles, spring. Robert Caldwell. Montevallo, Ala. May 24, 1845 Saddles, spring seat, elastic. Charles E. King. Mount Picasant, O. Feb. 21, 1840 Saddles, spring seat, riding. J. G. Palmer, Harvey Beard. And Anthony Beard. Greenville, Va. June 11, 1842 Saddles, spring seat, riding. J. G. Palmer, Harvey Beard. And Anthony Beard. Saddles, spring tree. David C. Mosely. South Dissorting tree. Joseph Dinwiddle and	Staddles, construction of	Samuel Ringgold	Fort McHenry, Md	Oct. 7, 1844
Saddles, bow and worm, spring for Jonathan Keedy. Russelville, Ky. Aug. 18, 1837 Saddles, elastic. William McCormick Bath county. Ky. June 20, 1836 Saddles, elastic seat. William Harper. Nashville, Tenn. April 2, 1819 Saddles, elastic seat. Peter H. Martin. Nashville, Tenn. April 2, 1819 Saddles, elastic seat. Bushrod Smith. Nashville, Tenn. Aug. 24, 1833 Saddles, ladies'. M. Jenkins. Attica, N.Y. July 1, 1836 Saddles, for removing the sick. Hezekiah L. Thistle. Saddles, riding. Alonzo R. Dinsmoor. Saddles, riding. Alonzo R. Dinsmoor. Saddles, riding of gum elastic webbing. AL. Van Horn. Philadelphia, Pa. June 26, 1835 Saddles, seat, spring. Marshal Bayliss and Wm. Brannon. Fredericksburg, Va. Saddles, side. Dinsmoor. Saddles, side. E. Bridewell. Bardstown, Ky. Nov. 26, 1836 Saddles, spring. Samuel M. Leaming. Saddles, spring. Samuel M. Leaming. Saddles, spring. Samuel M. Leaming. Saddles, spring. Thomas Harvey. Middletown, Del. Jan. 24, 1838 Saddles, spring. John G. Manlove. Baltimore, Md. Nov. 23, 1835 Saddles, spring. Charles Bates. Staunton, Va. Nov. 26, 1836 Saddles, spring. William Duchman Morgantown, Pa. April 28, 1836 Saddles, spring. William Duchman Morgantown, Pa. April 28, 1836 Saddles, spring. Henry Sheets. Staunton, Va. Nov. 26, 1835 Saddles, spring. Henry Sheets. Staunton, Va. Nov. 26, 1835 Saddles, spring. Henry Sheets. Staunton, Va. Nov. 25, 1837 Saddles, spring. John G. Manlove. Bainbridge, Ohio Mar. 25, 1837 Saddles, spring. Harmon C. Fisher Warwick, R. I. Nov. 25, 1837 Saddles, spring. John F. Lehr. Huntsville, Ala. May 24, 1848 Saddles, spring seat, elastic. Charles E. King. Mount Picasant, O. Feb. 21, 1840 Saddles, spring seat, riding. Bobert Wilson. Milton, Pa. Mar. 11, 1837 Saddles, spring seat, riding. Green Wilson. Milton, Pa. Mar. 11, 1837 Saddles, spring seat, riding. Green Wilson. Milton, Pa. Mar. 11, 1837 Saddles, spring seat, riding. Green Wilson. Milton, Pa. Mar. 11, 1837 Saddles, spring seat, riding. David C. Mosely. South David C. Mosely. Saddles, spring tree. David C. Mosely. S	Saddles, and collars	Lbenezer Hale	New York, N. Y	
Saddles, elastic seat   William McCormick   Bath county, Ky   June 20, 1836	Challes have and means assisse for	Tanashan Kaada	D.,,,,,[]], 17	Ana 10 1027
webbing. A. L. Van Horn Philadelphia, Pa. June 26, 1835 Saddles, seat, spring. Marshal Bayliss and Um. Brannon Schoharie, N. Y. Dec. 3, 1834 Saddles, side. Cliney Briggs. Schoharie, N. Y. Dec. 3, 1834 Saddles, spring. E. Bridewell Bardstown, Ky. Mov. 26, 1836 Saddles, spring. Samuel M. Leaming Saddles, spring. Nathan W. Conklin. Jamaica, N. Y. Mar. 27, 1824 Saddles, spring. Marshal Woodward Marshaltown, Pa. Oct. 6, 1835 Saddles, spring. Adam Hickman Abingdon, Va. Nov. 23, 1835 Saddles, spring. Charles Bates. Staunton, Va. Nov. 26, 1836 Saddles, spring. William Duchman Morgantown, Pa. April 28, 1836 Saddles, spring. John G. Manlove Bainbridge, Ohio. Mar. 25, 1837 Saddles, spring. Henry Sheets. Staunton, Va. Mar. 39, 1837 Saddles, spring. Homes Baldwin. Cincinnati, Ohio. April 29, 1837 Saddles, spring. John D. Payne. Warm Springs, Va. Nov. 25, 1837 Saddles, spring. Robert Spencer. New York, N. Y. Nov. 24, 1643 Saddles, spring. Robert Spencer. New York, N. Y. Nov. 24, 1643 Saddles, spring seat, riding. Robert Wilson. Montevallo, Ala. May 24, 1845 Saddles, spring seat, riding. Robert Wilson. Montevallo, Ala. May 24, 1845 Saddles, spring seat, riding. Robert Wilson. Montevallo, Ala. May 24, 1845 Saddles, spring seat, riding. Robert Wilson. Montevallo, Ala. May 24, 1845 Saddles, spring seat, riding. Robert Wilson. Montevallo, Ala. May 24, 1845 Saddles, spring seat, riding. Robert Wilson. Milton, Pa. Mar. 11, 1832 Saddles, spring seat, riding. Robert Wilson. Montevallo, Ala. May 24, 1845 Saddles, spring seat, riding. Robert Wilson. Montevallo, Ala. May 24, 1845 Saddles, spring seat, riding. Robert Wilson. Montevallo, Ala. May 24, 1845 Saddles, spring seat, riding. Robert Wilson. Milton, Pa. Mar. 11, 1836 Saddles, spring tree. Joseph Dinwiddle and	Saddles elastic	William McCormick	Reth county Ky	June 20, 1836
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Saddles, seat, spring.  Saddles, side.  Saddles, side.  Saddles, side.  Saddles, spring.  Thomas Harvey.  Mary 16, 1835  Saddles, spring.	Saddles, riding, of gum elastic	· Dinsinoor.	Gonsown, 20. 12.	1000
Saddles, side	webbing	A. L. Van Horn	Philadelphia, Pa	June 26, 1835
Saddles, side	Saddles, seat, spring	Marshal Bayliss and		36 10 1005
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Saddles, spring. Nathan W. Conklin Jamaica, N. Y. Mar. 27, 1824 Saddles, spring. Joel Woodward. Marshaltown, Pa. Oct. 6, 1835 Saddles, spring. Adam Hickman. Abingdon, Va. Nov. 23, 1835 Saddles, spring. Charles Bates. Staunton, Va. Nov. 26, 1835 Saddles, spring. William Duchman. Morgantown, Pa. April 28, 1836 Saddles, spring. John G. Manlove Bainbridge, Ohio Mar. 25, 1837 Saddles, spring. Henry Sheets. Staunton, Va. Mar. 39, 1837 Saddles, spring. Henry Sheets. Staunton, Va. Mar. 39, 1837 Saddles, spring. John D. Payne. Warwick, R. I. Nov. 25, 1837 Saddles, spring. John D. Payne. Warm Springs, Va. Nov. 25, 1837 Saddles, spring. Abraham Freed. Marietta, Pa. June 11, 1842 Saddles, springs. John F. Lehr. Huntsville, Ala. July 5, 1845 Saddles, spring seat, elastic. Charles E. King. Mount Piensant, O. Feb. 21, 1840 Saddles, spring seat, riding. J. G. Palmer, Harvey Beard, and Anthony Beard. Saddles, spring tree. Joseph Dinwiddie and Saddles, Mar. 11, 1837 Saddles, spring tree. Joseph Dinwiddie and Saddles, April 25, 1810	Saddles, spring	Charles Klasson	Baltimore, Md	May 22, 1816
Saddles, spring. Nathan W. Conklin Jamaica, N. Y. Mar. 27, 1824 Saddles, spring. Joel Woodward. Marshaltown, Pa. Oct. 6, 1835 Saddles, spring. Adam Hickman. Abingdon, Va. Nov. 23, 1835 Saddles, spring. Charles Bates. Staunton, Va. Nov. 26, 1835 Saddles, spring. William Duchman. Morgantown, Pa. April 28, 1836 Saddles, spring. John G. Manlove Bainbridge, Ohio Mar. 25, 1837 Saddles, spring. Henry Sheets. Staunton, Va. Mar. 39, 1837 Saddles, spring. Henry Sheets. Staunton, Va. Mar. 39, 1837 Saddles, spring. John D. Payne. Warwick, R. I. Nov. 25, 1837 Saddles, spring. John D. Payne. Warm Springs, Va. Nov. 25, 1837 Saddles, spring. Abraham Freed. Marietta, Pa. June 11, 1842 Saddles, springs. John F. Lehr. Huntsville, Ala. July 5, 1845 Saddles, spring seat, elastic. Charles E. King. Mount Piensant, O. Feb. 21, 1840 Saddles, spring seat, riding. J. G. Palmer, Harvey Beard, and Anthony Beard. Saddles, spring tree. Joseph Dinwiddie and Saddles, Mar. 11, 1837 Saddles, spring tree. Joseph Dinwiddie and Saddles, April 25, 1810	Saddles, spring	Samuel M. Leaming.	Lexington, Ky	July 6, 1818
Saddles, spring. Joel Woodward. Marshaltown, Del. Jan. 24, 1828 Saddles, spring. Joel Woodward. Marshaltown, Pa. Oct. 6, 1835 Saddles, spring. Adam Hickman. Abingdon, Va. Nov. 23, 1835 Saddles, spring. Peter Crim. Waynestown, Pa. April 28, 1836 Saddles, spring. John G. Manlove. Bainbridge, Ohio. Mar. 25, 1837 Saddles, spring. Henry Sheets. Staunton, Va. Mar. 39, 1837 Saddles, spring. Henry Sheets. Staunton, Va. Mar. 39, 1837 Saddles, spring. Henry Sheets. Warwick, R. I. Nov. 25, 1837 Saddles, spring. John D. Payne. Warm Springs, Va. April 29, 1837 Saddles, spring. John D. Payne. Warm Springs, Va. Nov. 25, 1837 Saddles, spring. Abraham Freed. Marietta, Pa. June 11, 1842 Saddles springs. Robert Spencer. New York, N. Y. Nov. 24, 1843 Saddles springs. Robert Caldwell. Montevallo, Ala. May 24, 1845 Saddles, spring seat, elastic. Charles E. King. Mount Pleasant, O. Feb. 21, 1840 Saddles, spring seat, riding. Robert Wilson. Milton, Pa. Mar. 11, 1837 Saddles, spring tree. Joseph Dinwiddle and Milton, Pa. Mar. 11, 1837 Saddles, spring tree. Joseph Dinwiddle and Marsham. David C. Mosely. Boston, Mass. April 25, 1810	Saddles, spring	Nathan W. Conklin	Jamaica, N. Y	Mar. 27, 1824
Saddles, spring. Adam Hickman. Abingdon, Va. Nov. 23, 1835 Saddles, spring. Charles Bates. Staunton, Va. Nov. 26, 1835 Saddles, spring. William Duchman. Morgantown, Pa. Aug. 31, 1836 Saddles, spring. John G. Manlove. Bainbridge, Ohio. Mar. 25, 1837 Saddles, spring. Henry Sheets. Staunton, Va. Mar. 39, 1837 Saddles, spring. Henry Sheets. Staunton, Va. Mar. 39, 1837 Saddles, spring. John D. Payne. Warwick, R. I. Nov. 25, 1837 Saddles, spring. John D. Payne. Warm Springs, Va. Nov. 25, 1837 Saddles, spring. Thomas Mardock. Liberty, Ind. Aug. 28, 1841 Saddles, spring. Robert Spencer. New York, N. Y. Nov. 24, 1843 Saddles springs. John F. Lehr. Huntsville, Ala. July 5, 1845 Saddles, spring seat, elastic. Charles E. King. Mount Piensant, O. Feb. 21, 1840 Saddles, spring seat, riding. J. G. Palmer, Harvey Beard, and Anthony Beard. Greenville, Va. June 12, 1835 Saddles, spring seat, riding. Robert Wilson. Milton, Pa. Mar. 11, 1837 Saddles, spring tree. Joseph Dinwiddie and	Saddles, spring	Thomas Harvey	Middletown, Del	Jan. 24, 1828
Saddles, spring	Saddles, spring	Joel Woodward	Marshaltown, Pa	Nor 92 1935
Saddles, spring	Saddles spring	Charles Rates	Staunton Va	Nov. 26, 1835
Saddles, spring	Saddles, spring	Peter Crim	Waynestown, Pa	April 28, 1836
Saddles, spring	Saddles, spring	William Duchman	Morgantown, Pa	Aug. 31, 1836
Saddles, spring	Saddles, spring	John G. Manlove	Bainbridge, Ohio	Mar. 25, 1837
Saddles, spring	Saddles, spring	Henry Sheets	Staunton, Va	Mar. 39, 1837
Saddles, spring	Saddles enging	Hormon C Fisher	Warwick P I	Nov. 25 1837
Saddles, spring	Saddles, spring	John D. Pavne.	Warm Springs, Va.	Nov. 25, 1837
Saddles, spring	Saddles, spring.	Thomas Mardock	Liberty, Ind	Aug. 28, 1841
Saddles, spring seat, elastic	Saddles, spring	Abraham Freed	Marietta, Pa	June 11, 1842
Saddles, spring seat, elastic	Saddles, spring	Robert Spencer	New York, N. Y	Nov. 24, 1843
Saddles, spring seat, elastic	Saddle springs	John F. Lehr	Huntsville, Ala	July 5, 1845
Saddles, spring seat, riding Richard Harrison New York Feb. 11, 1834  Saddles, spring seat, riding J. G. Palmer, Harvey Beard, and Anthony Beard Greenville, Va Milton, Pa Mar. 11, 1837  Saddles, spring tree David C. Mosely Boston, Mass April 25, 1810  Saddles, spring tree Joseph Dinwiddle and	Saddles spring seet election			Feb. 21, 1840
Saddles, spring seat, riding J. G. Palmer, Harvey Beard, and Anthony Beard, and Anthony Beard Greenville, Va June 12, 1835 Saddles, spring seat, riding Robert Wilson Milton, Pa Mar. 11, 1837 David C. Mosely Boston, Mass April 25, 1810 Saddles, spring tree Joseph Dinwiddie and				
Beard, and Anthony Beard	Saddles, spring seat, riding	J. G. Palmer. Harvey		1
Saddles, spring seat, riding	, 1			
Saddles, spring tree David C. Mosely Boston, Mass April 25, 1810 Saddles, spring tree Joseph Dinwiddie and	A 19	Beard	Greenville, Va	
Saddles, spring tree Joseph Dinwiddle and	Saddles, spring seat, riding	Robert Wilson	Milton, Pa	Mar. 11, 1837
				жри жэ, 1010
				Aug. 8, 1893

Saddles, steel spring worm.  Saddles, trees.  Anthony Null.  Paliadelphia, Pa. June 28, 1814  Saddles, trees.  Saddles, trees.  Saddles, trees.  Saddles, trees.  Anthony Null.  Paliadelphia, Pa. Aug. 29, 1826  Saddles, trees.  Saddles, trees.  Saddles, trees.  Anthony Null.  Paliadelphia, Pa. Aug. 29, 1826  Saddles, trees.  Saddles, trees.  Saddles, trees.  Saddles, trees.  Anthony Null.  Paliadelphia, Pa. Aug. 29, 1826  Williamson.co., Ten. Protonia, Ind. Nov. 22, 1824  Saddles, trees, narness.  Polio M. Bouton  Saddles, trees, narness.  Saddles, trees, narness.  Polio M. Bouton  Saddles, trees, narness.  Saddles, trees, narnes	<del></del>			
Saddles, trees.   Chauncey Stiles, jr.   Philadelphia, Pa.   June 28, 1814.   Saddles, trees.   John Bryan.   Lexington, Ky.   Oct. 24, 1615.   Saddles, trees.   Anthony Null.   Philadelphia, Pa.   Aug. 29, 1832.   Saddles, trees.   Anthony Null.   Philadelphia, Pa.   Aug. 29, 1832.   Saddles, trees.   George Wilkes.   Farifield, Ct.   Mar.   6, 1832.   Saddles, trees.   George Wilkes.   Fordonia, Ind.   Nov. 22, 1833.   Saddles, trees.   William Kelly.   New Columbus, Pa.   May 28, 1833.   Saddles, trees.   William Kelly.   New Columbus, Pa.   May 28, 1833.   Saddles, trees, ladies'   John M. Bouton.   Newark, N. J.   Aug. 17, 1835.   Saddles, trees, ladies'   John M. Bouton.   Newark, N. J.   Aug. 17, 1835.   Saddles, trees, and spring girth.   Seether Harry   Harrisonburg, Va.   Feb.   1, 1834.   Saddles, trees, and spring girth.   Seether Harry   Harrisonburg, Va.   Feb.   1, 1834.   Saddlesg, fastenings.   Alvin North.   North Britain, C.   Dec. 29, 1837.   Sewing machine, sewing with the running stitch.   Sewing leather, clamp for.   Joseph Burrington.   Sewing leather, clamp for.   Joseph Burrington.   Sewing leather.   Helmore the properties of straight seams.   Sewing leather.   Helmore the properties of straight seams.   Philadelphia, Pa.   May 1, 1834.   Shaving leather.   Helmore the properties of straight seams.   Philadelphia, Pa.   July 22, 1844.   Shaving leather.   Helmore the properties of straight seams.   Philadelphia, Pa.   June 7, 1834.   Shaving leather.   Frederick Woodward Sewing machine, sewing with the running stitch.   Philadelphia, Pa.   July 22, 1844.   Shaving leather.   Frederick Woodward Shaving leather, and splitting.   Philadelphia, Pa.   May 1, 1834.   Shaving leather, and splitting.   Philadelphia, Pa.   May 1, 1834.   Shaving leather, and splitting.   Philadelphia, Pa.   May 1, 1834.   Shaving leather, and splitting.   Philadelphia, Pa.   May 1, 1834.   Shoe making machine.   Jahan Martin Fuller.   Royalton, V.   July 29, 1864.   Shoe, over.   Daniel Hodgman.   Philadelphia	. Inventions or discoveries.	PATENTEES.	RESIDENCE.	when issued.
Saddles, trees.   Chauncey Stiles, jr.   Philadelphia, Pa.   June 28, 1814.   Saddles, trees.   John Bryan.   Lexington, Ky.   Oct. 24, 1615.   Saddles, trees.   Anthony Null.   Philadelphia, Pa.   Aug. 29, 1832.   Saddles, trees.   Anthony Null.   Philadelphia, Pa.   Aug. 29, 1832.   Saddles, trees.   George Wilkes.   Farifield, Ct.   Mar.   6, 1832.   Saddles, trees.   George Wilkes.   Fordonia, Ind.   Nov. 22, 1833.   Saddles, trees.   William Kelly.   New Columbus, Pa.   May 28, 1833.   Saddles, trees.   William Kelly.   New Columbus, Pa.   May 28, 1833.   Saddles, trees, ladies'   John M. Bouton.   Newark, N. J.   Aug. 17, 1835.   Saddles, trees, ladies'   John M. Bouton.   Newark, N. J.   Aug. 17, 1835.   Saddles, trees, and spring girth.   Seether Harry   Harrisonburg, Va.   Feb.   1, 1834.   Saddles, trees, and spring girth.   Seether Harry   Harrisonburg, Va.   Feb.   1, 1834.   Saddlesg, fastenings.   Alvin North.   North Britain, C.   Dec. 29, 1837.   Sewing machine, sewing with the running stitch.   Sewing leather, clamp for.   Joseph Burrington.   Sewing leather, clamp for.   Joseph Burrington.   Sewing leather.   Helmore the properties of straight seams.   Sewing leather.   Helmore the properties of straight seams.   Philadelphia, Pa.   May 1, 1834.   Shaving leather.   Helmore the properties of straight seams.   Philadelphia, Pa.   July 22, 1844.   Shaving leather.   Helmore the properties of straight seams.   Philadelphia, Pa.   June 7, 1834.   Shaving leather.   Frederick Woodward Sewing machine, sewing with the running stitch.   Philadelphia, Pa.   July 22, 1844.   Shaving leather.   Frederick Woodward Shaving leather, and splitting.   Philadelphia, Pa.   May 1, 1834.   Shaving leather, and splitting.   Philadelphia, Pa.   May 1, 1834.   Shaving leather, and splitting.   Philadelphia, Pa.   May 1, 1834.   Shaving leather, and splitting.   Philadelphia, Pa.   May 1, 1834.   Shoe making machine.   Jahan Martin Fuller.   Royalton, V.   July 29, 1864.   Shoe, over.   Daniel Hodgman.   Philadelphia	Saddles steel apping worm	George Pritchard	Clarksburg, Va	May 3, 1832
Saddles, trees. R. and E. Fairchild. Fairfield, Ct. Mar. 6, 1832 Saddles, trees. Chris. Kurtz. Lacaster, Pa. May 29, 1832 Saddles, trees. Chris. Kurtz. Lacaster, Pa. May 29, 1832 Saddles, trees. Andrew R. McBride. William Kelly. Saddles, trees, harness. Philo Washburn. David Saddles, trees, harness. Philo Washburn. Tanton, Mass. Mar. 8, 1832 Saddles, trees, harness. Philo Washburn. Tanton, Mass. Mar. 8, 1832 Saddles, trees, springs. John M. Bouton. Saddles, trees, springs. John M. Bouton. Saddles, trees, springs. John M. Bouton. Saddles, trees, springs. John M. Saddles, trees, springs. J				June 28, 1814
Saddles, trees. Anthony Nul. Philadelphia, Pa. Aug. 29, 1838 Saddles, trees. George Wilkes. Footonis, Ind. Nov. 22, 1838 Saddles, trees. George Wilkes. Footonis, Ind. Nov. 22, 1838 Saddles, trees. George Wilkes. Footonis, Ind. Nov. 22, 1838 Saddles, trees, Maries. William Kelly. New Columbus, Pa. May 26, 1838 Saddles, trees, Indies. Philo Washburn. Taunton, Mass. Mar. 8, 1832 Saddles, trees, machine for making Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, machine for making Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, paringa. Philo Washburn. Newark, N. J. Aug. 17, 1835 Saddles, trees, paring with the Nathan Mizer. Newark. N. J. Aug. 18, 1839 Saddles, trees, paring with the Nathan Mizer. New York. July 22, 1844 Saddlesg, trees, paring with the Nathan Mizer. New York. N. July 22, 1844 Shoe Mather, and splitting. Shaving leather. Dec. 29, 1837 Saving leather. Mather the Nathan Mather Philadelphia, Pa. Mar. 10, 1836 Shoe, over. Daniel Hodgman. New York. N. July 29, 1808 Shoemakers bearing kinfe. Shoemakers' paring knife. Shoemakers, clamp for. Thomas R. Hoyt. Ge				Oct. 24, 1615
Saddles, trees. Chris. Kurtz. Lacaster, Pa. May 29, 1823 Saddles, trees. Chris. Kurtz. Lacaster, Pa. May 29, 1823 Saddles, trees. Andrew R. McBride. Saddles, trees, harness. Philo Washburn. Tanton, Mass. Mar. 8, 1823 Saddles, trees, harness. Philo Washburn. Tanton, Mass. Mar. 8, 1823 Saddles, trees, sharines. Philo Washburn. Tanton, Mass. Mar. 8, 1823 Saddles, trees, sharines. Philo Washburn. Tanton, Mass. Mar. 8, 1823 Saddles, trees, sharine for making Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Saddles, trees, springs. New Columbus, Pa. May 30, 1837 Sewing machine. Sewing with the Furchid and Columbus, Pa. May 11, 1835 Saddles, trees, spring sich. Sewing saddles, trees, spring king. Sewing saddles, trees, spring king. Sewing saddles, trees, saddles, and splitting. Marker Pulps. New York. N. J. Aug. 11, 1835 Saddles, trees, saddles, and splitting. Sewing saddles, trees, saddles, and splitting. Sewing saddles, trees, saddles, and splitting. Sewing saddles,				
Saddles, trees. ———————————————————————————————————				Aug. 29, 1822
Saddles, trees.   Andrew R. McBride   Saddles, trees.   Andrew R. McBride   New Columbus, Pa.   May 30, 1837   Saddles, trees, harness.   Philo Washburn.   Tauton, Mass.   May 30, 1837   Saddles, trees, and spring girth.   Saddles, without trees.   Saddles, without trees.   Peter Harry   Harrisonburg, Va.   July 16, 1818   Saddlebag, fastenings   Sewing machine.   George H. Corliss   George H. Corliss   Sewing machine, ewing with the running stitch.   Joseph Burrington.   Sewing leather, clamp for.   Joseph Burrington.   Sewing leather, machine, &c.   Henry Lye.   Shaving leather   J. J. Greenough   J. J. Greenough   Shaving leather, and splitting.   Shaving leather, and splitting skins   Shaving leather, and splitting skins   Shoes, cutting out   Charles Weston.   Shoes, cutting out   Charles Weston.   Shoes, over.   Daniel H. Bond.   Charles Weston.   Shoes, water proof.   Reinard Hands.   Shoemaker's pairing kinfe.   Shoemaker's workstand.   Shoemaker's clamp for.   Charles Weston.   Shoemaker's pairing kinfe.   Shoemaker's clamp for.   Charles Weston.   Shoemaker's pairing kinfe.   Shoemaker's pairing kinfe.   Shoemaker's pairing kinfe.   Shoemaker's clamp for.   Charles Weston.   Shoemaker's pairing kinfe.   Shoemaker's clamp for.   Charles Weston.   Charles W		Chris. Kurtz	Lancaster, Pa	May 28, 1823
Saddles, trees. — Andrew R. McBride. Williams on Co., Ten Feb. 5, 1836 Saddles, trees, namess. — Philo Washburn. — Taunton, Mass. Mar. 8, 1832 Saddles, trees, machine for making Saddles, trees, springs. — Name Mar. 8, 1832 Saddles, trees, springs. — Name Mar. 8, 1832 Saddles, trees, springs. — Name Mar. 8, 1832 Saddles, trees, and spring girth. Peter Harry. — Harrisonburg. Va. June 7, 1835 Saddlebag. — John M. Bouton. — Peter Dixon. — Philadelphia, Pa. July 16, 1818 Saddlebag, fastenings — Alvin North. — North Britain, Ct. — Dec. 27, 1843 Sewing machine, &c. — Sewing and stitching all kinds of atraight seame. — Sewing leather, clamp for — Joseph Burrington Byte, Vt. — May 1, 1834 Sewing leather. — Joseph Burrington Byte, Vt. — May 1, 1834 Shaving leather — Shaving leather — Shaving leather, and splitting. Shaving leather, and splitting shoes, cutting. — Shoe making machine. — Daniel H. Bond. Canterbury, Ct. — June 16, 1836 Shoes, over. — Daniel H. Bond. Canterbury, Ct. — June 16, 1836 Shoes, over. — Daniel H. Bond. Canterbury, Ct. — June 16, 1836 Shoes, over. — Daniel H. Bond. Canterbury, Ct. — June 29, 1843 Shoes maker's pairing knife. — Isaac S. Pendergast. — Seex. Vt. — Aug. 15, 1833 New York. — July 16, 1841 Shoemaker's pairing knife. — Isaac S. Pendergast. — Shoemaker's pairing knife.			Fredonia, Ind	
Saddies, trees, harness. Philo Washburn. Takadides, trees, hadies'. John M. Bouton. Saddles, trees, machine for making Saddles, trees, springs. Saddles, trees, springs. Nathan Mixer. Harrisonburg, Va. Saddles, trees, and spring girth. Saddles, without trees. Sewing saddles, springs. Saddles, without trees. Sewing machine. Sewing machine. Sewing machine. Sewing machine. Sewing machine. Sewing leather, clamp for. Joseph Burrington. Sewing leather, machine, &c. Sewing leather, machine, &c. Sewing leather, machine, &c. Joseph Burrington. Shaving leather. P. Bachelder. Shaving leather. Herkimer Johnson. Shaving leather, and splitting. Shaving leather, and splitting shins Shoes, cutting. Shoes, over. Daniel Hodgman. Shoes, over. Daniel Hodgman. Shoes, over. Daniel Hodgman. Shoes, socks. Shoes, over. Daniel Hodgman. Shoes, socks. Shoes, socks. Shoes, socks. Shoes, sock shoes, socks. Shoes, sock shoes, socks. Shoes, sock				
Saddles, trees, haines*				May 30, 1837
Saddles, trees, machine for making Saddles, trees, springs.  Saddles, trees, springs.  Saddles, trees, springs.  Saddles, trees, springs.  Saddles, trees, and spring girth.  Saddles, without trees.  Saddles, without trees.  Saddlebag, fastenings.  Alvin North.  Sewing machine.  George H. Corliss.  Sewing machine, sewing with the running stitch.  Sewing glather, clamp for.  Sewing leather, clamp for.  Shaving leather.  Shaving leather.  Shaving leather.  Shaving leather, and splitting.  Shave, cutting out.  Charles Weston.  Ira Hatch.  Charles Weston.  Ira Hatch.  Charles Weston.  Ira Hatch.  Shoes, over.  Daniel Hodgman.  Shoes, over.  Daniel Hodgman.  Shoes, over.  Daniel Hodgman.  Shoes, over.  Daniel Hodgman.  Andrew Vetter.  Shoemaker's pairing knife.  Shoemaker's workstand.  Shoes, over.  Shoemaker, clamp for.  Skining, exreacing leather.  Skining and suiting leather.  Skining and splitting.  Skining strees, spring knife.  Slaving and whitening leather.  Skining and splitting.  Skining and splitting.  Skining strees pairing knife.  Shoes, over.  Shoenaker, spring knife.  Shoemaker, spring knife.  Shoemaker, spairing knife.  Shoe				
Saddles, trees, machine for making Eben. Fairchild and Eben. Fairchild Anton May 28, 1818. Feb. 1, 1893 Eben. 1982 Fill Flint Fill, Va June 7, 1893 Eben in Alvin North Britain, Ct. Dec. 29, 1837 Greenwich, N. Y. Dec. 27, 1843 Ebewing feather, and split and stiching all kinds of straight seams. Henry Lye. Philadelphia, Pa. Mar. 10, 1826 Ebewing leather. J. P. Houston and O. P. Bachelder. Bedford, N. H. April 11, 1895 Eben. Sanuel Earker. Johnson. Brooklyn, Ct. June 16, 1892 Eben. 28, 1833 Eben. Fairchild and Eben. Eben. Fairchild and Eben. Eben. The Mar. 10, 1892 Eben. 28, 1833 Eben. Baking machine. J. Hall. N. Benigmann Miller. Philadelphia, Pa. May 9, 1818 Eben. 11, 1893 Eben. 28, 1833 Eben. Mar. 11, 1816 Eben. 28, 1833 Eben. Salem, Mass. May 6, 1836 Ebens. Socks. S. Norris and J. C. Wood. Philadelphia, Pa. Mar. 23, 1842 Ebens. Shoes, over. Daniel Holog				
Saddles, trees, and springs girth. Saddles, trees, and spring girth. Saddlesg, without trees. Saddlebag. Saddlebag, fastenings. Saddlebag, fastenings. Saddlebag, fastenings. Saddlebag, fastenings. Saddlebag, fastenings. Sewing machine. Sewing machine. Sewing machine, sewing with the running stitch. Sewing leather, clamp for. Sewing and stitching all kinds of straight seams. Shaving leather. Shaving leather. Shaving leather.  Shaving leather.  James Rodgers. Shaving leather. Shaving leather.  James Rodgers. Shaving leather. Shaving leather.  James Rodgers.  James Rodgers.  James Rodgers. Shaving leather. Shaving leather.  James Rodgers.  New York.  July 22, 1842  May 1, 1834  Mar 10, 1836	Reuben Fairchild and			
Saddles, trees, and spring girth. Saddles, without trees. Saddles, saddlebag, fastonings. Saddles, saddlebag, fastonings. Saddles, saddlebag, fastonings. Saddlebag, fastonings. Saddlebag, fastonings. Saddlebag, fastonings. Sadving machine, sewing with the running stitch. Sewing machine, sewing with the running stitch. Sewing leather, clamp for. Sewing leather, machine, &c. Henry Lye. Shaving leather. Shaving leather. J. J. J. Greenough. Shaving leather. J. P. Bachelder. Shaving leather. J. P. Bachelder. Shaving leather, and splitting. Shaving l	0.10			
Saddlebs, fastenings		Data Ham	Neene, N. H	May 20, 1010
Saddlebag, fastenings		Peter Harry	Harrisonburg, va	reo. 1, 1823
Saddlebeğ, fastenings				
Sewing machine, sewing with the running stitch.  Sewing leather, clamp for .  Sewing leather, clamp for .  Sewing leather, machine, &c  Sewing leather, and splitting .  Shaving leather .  Shaving leather, and splitting .  Shaving leather.  Shaving leather, and splitting .  Shaving leather.  Shaving lea	Saddlebag			
Sewing machine, sewing with the running stitch.  Sewing leather, clamp for. Sewing leather, machine, &c. Sewing and stitching all kinds of straight seams.  Shaving leather.  Shaving leather.  Shaving leather.  Shaving leather.  Shaving leather, and splitting. Shoes, cutting.  Shaving leather, and splitting. Shaving leather.  Shaving leather, and sp		Alvin North	North Britain, Ct	Dec. 29, 1837
sewing leather, clamp for		George H. Corliss	Greenwich, N. Y	Dec. 27, 1843
Sewing leather, clamp for Sewing leather, machine, &c Henry Lye Henry Lye Henry Lye Philadelphia, Pa Philadelphia, Pa May 1, 1834 Philadelphia, Pa Mar. 10, 1836 Philadelphia, Pa Washington, D. C Feb. 21, 1842 New Lisbon, N. Y. July 27, 1812 Shaving leather Shaving leather Shaving leather Shaving leather, and splitting. Shoes, cutting.  Charles Weston. Shoes, cutting out. Charles Weston. Shoe making machine. J. Hall. N. Bridgewater Mass May 27, 1834 Shoes, over. Daniel H. Bond. Shoes, over. Daniel H. Bond. Shoemaker's pairing knife. Shoemaker's pairing knife. Shoemaker's pairing knife. Shoes, over. Shoe pattern, perpetual. Shoes, socks. Shoes, cutting. Shoes, cutting. Shoes, cutting. Shoes, cutting. Shoes, over. Shoemakers, clamp for. Shoemakers, clamp				T 1 00 1044
Sewing leather, machine, &c.   Henry Lye.   Philadelphia, Pa.   Mar. 10, 1826 straight seams   J. J. Greenough   Washington, D. C.   Feb. 21, 1842 Shaving leather   J. P. Houston and O. P. Bachelder   Bedford, N. H.   April 11, 1825 Shaving leather, and splitting   Ashaving leather, and splitting   Shaving leather, and splitting   Shoes, cutting   Shoes, over   Daniel Hodgman   Shoes, over   Daniel Hodgman   Shoes, access   Shoes, water proof.   Samuel Haynes   May 2, 1848 Shoes, socks   Shoes, water proof.   Samuel Haynes   May 2, 1846 Shoes, socks   Shoes, water proof.   Shoes, water proof.   Shoes, water proof.   Shoes, cutting and gilding leather   Shoemakers, clamp for.   Shoemakers, clamp	running stitch			
Sewing and stitching all kinds of straight seams.  J. J. Greenough  Frederick Woodward J. P. Houston and O. P. Bachelder  Shaving leather  Shaving leather  Shaving leather  Shaving leather  Shaving leather, and splitting  Shaving leather, a				May 1, 1834
Shaving leather		Henry Lye	Philadelphia, Pa	Mar. 10, 1826
Shaving leather				
Shaving leather	straight seams			
Shaving leather			New Lisbon, N. Y.	July 27, 1812
Shaving leather. James Reilly. Waynesborough, Pa Shaving leather, and splitting. Shaving leather, and splitting. Shaving leather, and splitting. Shaving leather, and splitting. Shaving leather, and splitting skins Shaving leather, and splitting skins Shoes, cutting. Samuel Parker. Billerica, Mass. April 5, 1813 Shoes, cutting out. Charles Weston Charles Weston Charles Weston Ira Hatch Essex, Vt. Aug. 15, 1833 Shoe making machine. J. Hall. Shoes, over. Daniel Hodgman. Shoes, over. Daniel Hodgman. New York, N. Y. Mar. 23, 1842 Shoes, socks. Shoes, water proof. Ensate G. Augustin. Shoemaker's pairing knife. Isaac S. Pendergast. Shoes, water proof. Ensate G. Augustin. Shoemakers, clamp for. Richard Emans. Shoemakers, clamp for. Richard Emans. Skiving and whitening leather. Skiving sheep skins, softening and removing fleece from. Skiving sheep skins, softening and removing fleece from. Skiving sheep skins, softening and removing fleece from. Soles of pumps, shoes, channeling and scarfing.	Shaving leather			
Shaving leather, and splitting Shaving leather Shoes, cutting Out. Shaving leather Shoemaker spairing knife. Isaac S. Pendergast. Shoemaker's pairing knife. Isaac S. Pendergast. Wm. & Nathan Kelly. Samuel Haynes. Shoemaker spairing knife. Isaac S. Pendergast. Wm. & Nathan Kelly. Samuel Haynes. Shoemaker spairing knife. Isaac S. Pendergast. Wm. & Nathan Kelly. Samuel Haynes. Shoemakers, clamp for. Thomas R. Hoyt. Goffstown, N. H. Dec. 13, 1820 Oct. 16, 1834 Shoemakers, clamp for. Thomas R. Hoyt. Goffstown, N. H. Dec. 6, 1817 Shoulder-irons, shoemakers' Law Kenton. Skiving and whitening leather. Shiving sheep skins, softening and removing fleece from. Jonathan Mann. Skiving sheep skins, softening and removing fleece from. Jonathan Mann. Amesbury, Mass. May 1, 1834 Soles, of pumps, shoes, channeling and scarfing Lewis Baker. Fort Plain, N. Y. Sept. 2, 1840				
Shaving leather, and splitting skins Shaving leather, and splitting skins Shoven geather, and splitting skins geather, and splitting skins Shoven geather. Showen geather, and splitting skins Shoven geather, and splitting skins Shoven geather. Showen geather, and splitting skins Showen geather, and splitting skins geather, an				
Shaving leather, and splitting. Shaving leather, and splitting. Samuel Parker. Samuel Parker. Billerica, Mass. April 5, 1813 Nov. 1, 1810 Shoes, cutting. Shoes, cutting out. Shoes, cutting out. Shoes knife.  Charles Weston Charles				June 16, 1836
Shaving leather, and splitting skins Shaving leather, and splitting skins Shoes, cutting.  Shoes, cutting.  Shoes, cutting out.  Shoes, cutting out.  Shoe making machine.  Shoes, over.  Daniel H. Bond.  Daniel H. Bond.  Daniel Hodgman.  Andrew Vetter.  Shoemaker's pairing knife.  Shoemaker's pairing knife.  Shoes, socks.  Shoes, water proof.  Shoes, water proof.  Shoemaker, the.  Shoemakers, clamp for.  Shoemakers, clamp for.  Shoemakers, clamp for.  Shoemakers, clamp for.  Shoulder-irons, shoemakers'  Shoemakers, clamp for.  Skiving and gilding leather.  Skiving sheep skins, softening and removing fleece from.  Skiving sheep skins, softening and removing fleece from.  Soles of pumps, shoes, channeling and scarfing.  Samuel Parker.  Billerica, Mass.  Worcester, Mass.  Nov. 1, 1810  Worcester, Mass.  Nov. 1, 1810  Shorester, Mass.  Nov. 2, 1813  May 27, 1834  Salem, Mass.  May 27, 1834  Salem, Mass.  No Benjamin Flemery.  Salem, Mass.  Nov. 1, 1810  May 9, 1814  Salem, Mass.  Nov. 15, 1833  May 10, 1835  Aug. 15, 1833  New York, N. Y.  Mar. 23, 1842  Philadelphia, Pa.  May 2, 1846  Barnstead, N. H.  July 16, 1835  May 10, 1835  Sept. 6, 1833  Norwich, Ct.  Showard, Philadelphia, Pa.  Jan. 30, 1822  Windsor, Ct.  Mar. 14, 1816  Goffstown, N. H.  Dec. 6, 1817  May 10, 1836  Bath, Me.  June 21, 1830  Norwich, Ct.  Sept. 6, 1833  New York City.  June 30, 1836  May 10, 1836  Bath, Me.  July 31, 1837  Amesbury, Mass.  May 10, 1838  Bath, Me.  July 31, 1837  Amesbury, Mass.  May 10, 1838  Bath, Me.  July 31, 1837  Amesbury, Mass.  May 1, 1834  Lynn, Mass.  Dec. 16, 1844				
Shaving leather, and splitting skins Shoes, cutting.  Shoes, cutting out.  Charles Weston Ira Hatch.  Shoe, over.  Daniel Hodgman.  Andrew Vetter.  Shoemaker's pairing knife.  Shoes, socks.  Shoes, socks.  Shoes, water proof.  Shoes, water proof.  Shoes, water proof.  Shoemaker, the  Shoemakers, clamp for.  Skiving and whitening leather.  Skiving and whitening leather.  Skiving sheep skins, softening and removing fleece from.  Skiving sheep skins, softening and removing fleece flom.  Skins fleet Hotch.  Skins fleet Hotch.  Skins fle			Foxborough; Mass	Jan. 7, 1809
Shoes, cutting out.  Shoe knife.  Charles Weston  Ira Hatch.  Lira Hatch.  Daniel H. Bond.  Daniel H. Bond.  Shoes, over.  Shoes, over.  Shoemaker's pairing knife.  Shoemaker's workstand  Shoes, socks.  Shoes, socks.  Shoes, water proof.  Shoes, water proof.  Shoemakers, clamp for.  Skiving and whitening leather  Charles Weston.  Daniel H. Bond.  Daniel H. Bond.  New York, N. Y.  Philadelphia, Pa.  May 2, 1848  May 2, 1848  May 2, 1848  May 2, 1849  Oct. 13, 1820  Oct. 16, 1834  New York.  Mass.  Oct. 16, 1834  New York.  Mar. 14, 1816  Goffstown, N. H.  Dec. 6, 1817  Kensington, Pa.  Feb. 20, 1845  Skinis, deer, dressing.  Skinis, deer, dressing.  Skinis, deer, dressing.  Skiving and whitening leather.  Gilbreth and Eaton assignees of Seth Graham  Skiving sheep skins, softening and removing fleece from.  Jonathan Mann.  Amesbury, Mass.  May 10, 1838  Aug. 15, 1833  Aug. 1836  Canterbury, Ct.  June 30, 1836  Canterbury, Ct.  June 30, 1836  Canterbury, Ct.  June 30, 1836  Canterbury, Ct.  May 2, 1846  Salem, May 2, 1846  Canterbury, Ct.  May 2, 1846  Salem, May 2, 1846  Canterbury, Ct.  May 2, 1846  Canterbury, Ct.  New York, N. H.  Duly 16, 1841  New York.  May 10, 1836  New York City.  May 10, 1836  May 10	Shaving leather, and splitting			
Shoes, cutting out. Charles Weston Salem, Mass May 27, 1834 Shoe knife. Ira Hatch Essex, V. Aug. 15, 1833 Shoe making machine J. Hall Shoes, over Daniel H. Bond Shoes, over Daniel H. Bond Shoes, over Daniel Hodgman New York, N. Y. Mar. 23, 1842 Shoes, over Andrew Vetter Bernstead, N. H. July 16, 1841 Shoemaker's pairing knife Issae S. Pendergast Wm. & Nathan Kelly Shoe pattern, perpetual Shoes, socks S. Norris and J. C. Wood Philadelphia, Pa. Jan. 30, 1822 Shoes, water proof. Shoemaker, the Wood Shoemaker, clamp for Ernst G. Augustin New York July 6, 1835 Shoemaker, clamp for Choose Resign Shoulder-irons, shoemakers' James W. Newberry Marsfield, N. J. Oct. 6, 1837 Shoulder-irons, shoemakers' James W. Newberry Mansfield, N. J. Oct. 6, 1837 Shoilder-irons, shoemakers' James W. Newberry Mansfield, N. J. Oct. 6, 1837 Skins, deer, dressing Orin Kayes Norwich, Ct. Sept. 6, 1833 Skins, extracting hair from Gilbreth and Eaton assignees of Seth Graham Skiving and whitening leather Gilbreth and Eaton assignees of Seth Graham Skiving sheep skins, softening and removing fleece from Jonathan Mann Amesbury, Mass May 10, 1838 Sless, cutting Shoes, channeling and scarfing Shoes, channeling and scarfing Lewis Baker Fort Plain, N. Y. Sept. 2, 1849	Shaving leather, and splitting skins			
Shoe knife	Shoes, cutting			
Shoe making machine. J. Hall				
Shoe, over				
Shoemaker's pairing knife			N. Bridgewater Mass	
Shoemaker's pairing knife			Canterbury, Ct	
Shoemaker's pairing knife.			New York, N. Y	Mar. 23, 1842
Shoemaker's workstand.  Shoes pattern, perpetual.  Shoes, socks.  Shoes, water proof.  Shoemaker, the.  Shoemakers, clamp for.			May 2, 1846	
Shoes, socks  Samuel Haynes  Shoes, socks  Shoes, water proof  Shoemaker, the  Shoemakers, clamp for  Sh	Shoemaker's pairing knife			July 16, 1841
Shoes, socks				
Shoes, water proof. Shoemaker, the Shoemakers, clamp for. Shoemak			Maiden, Mass	Oct16, 1834
Shoes, water proof	,		Philadelphia, Pa	Jan. 30, 1822
Shoemaker, the	Shoes, water proof			
Shoemakers, clamp for			Windsor, Ct	Mar. 14, 1816
Shoemakers, clamp for			Goffstown, N. H	Dec. 6, 1817
Shoulder-irons, shoemakers' James W. Newberry. Kensington, Pa Feb. 20, 1845 Silvering and gilding leather Levi Kenton Orin Kayes Orin Kayes Norwich, Ct Sept. 6, 1833 Skins, extracting hair from Edward Flint Skiving and whitening leather Gilbreth and Eaton assignees of Seth Graham Roxbury, Mass May 10, 1838 Skiving, removing wool Benjamin F. Emery Bath, Me July 31, 1837 Skiving sheep skins, softening and removing fleece from Benjamin F. Emery Roxbury, Mass May 1, 1834 Soles, cutting Richard Richards Lynn, Mass Dec. 16, 1844 Soles of pumps, shoes, channeling and scarfing Lewis Baker Fort Plain, N. Y Sept. 2, 1840			Mansfield, N. J	Oct. 6, 1837
Skiving and whitening leather  Skiving and whitening leather  Skiving, removing wool  Skiving sheep skins, softening and removing fleece from  Soles, cutting  Soles of pumps, shoes, channeling and scarfing  Levi Kenton  Philadelphia, Pa  Sept. 6, 1833  New York City  Sept. 30, 1837  Skiving sheep skins, softening and removing fleece from  Benjamin F. Emery  Bath, Me  Amesbury, Mass  May 10, 1838  Bath, Me  July 31, 1837  Lynn, Mass  Lynn, Mass  Lynn, Mass  Lewis Baker  Fort Plain, N. Y  Sept. 2, 1840				
Skins, deer, dressing				
Skiving and whitening leather  Skiving, removing wool  Skiving sheep skins, softening and removing fleece from  Soles, cutting  Soles, cutting  Soles of pumps, shoes, channeling and scarfing  Lewis Baker  Edward Flint  New York City  June 30, 1837  May 10, 1838  Bath, Me  May 10, 1838  July 31, 1837  Amesbury, Mass  Lynn, Mass  Lynn, Mass  Lewis Baker  Fort Plain, N. Y  Sept. 2, 1840	Skins, deer, dressing.		Norwich, Ct	Sept. 6, 1833
Skiving and whitening leather  Skiving, removing wool  Skiving, removing wool  Skiving sheep skins, softening and removing fleece from  Soles, cutting  Soles of pumps, shoes, channeling and scarfing  Lewis Baker  Gilbreth and Eaton assignees of Seth Graham  Roxbury, Mass  Bath, Me  July 31, 1834  Lynn, Mass  May 1, 1834  Dec. 16, 1844  Fort Plain, N. Y  Sept. 2, 1840	Skins, extracting hair from	Edward Flint	New York City	June 30, 1837
signees of Seth Graham				
Skiving, removing wool	g			
Skiving, removing wool Benjamin F. Emery Bath, Me July 31, 1837 Skiving sheep skins, softening and removing fleece from Jonathan Mann Amesbury, Mass May 1, 1834 Soles, cutting Richard Richards Lynn, Mass Dec. 16, 1844 Boles of pumps, shoes, channeling and scarfing Lewis Baker Fort Plain, N. Y Sept. 2, 1840			Roxbury, Mass	May 10. 1838
Skiving sheep skins, softening and removing fleece from	Skiving, removing wool		Bath. Me	July 31, 1837
removing fleece from	Skiving sheep skins, softening and			- my 02, 2001
Soles, cutting	removing fleece from	Jonathan Mann	Ameshury Mass	May 1. 1834
Soles of pumps, shoes, channeling and scarfing Lewis Baker Fort Plain, N. Y Sept. 2, 1840-	Soles, cutting.			
and scarfing Lewis Baker Fort Plain, N. Y Sept. 2, 1840	Soles of number shoes channeling		J mm, mawaa	_00. 10, 1011
		Lewis Baker	Fort Plain. N. Y	Sept. 2 1840-
	Splitting hides, and shaving.	Nathaniel P. Whiting.		

INVENTIONS OR DISCOVERIES.	Patentees.	RESIDENCE.	WHEN MOUED
Splitting leather	Ephraim Howard and		
	Joshua Butters	Boston, Mass	May 3, 1820
Splitting leather	Joshua Butters	Boston, Mass	May 31, 1822
Splitting leather	Alpha Richardson	Boston, Mass	April 23, 1831
Splitting leather	Joseph P. Shaw and John C. Briggs		Dec 21 1022
Splitting leather, knife for	Herrick Aiken	Boston, Mass Brighton, Mass	Dec. 31, 1833 Mar. 12, 1823
Splitting leather, sole and other	Elias Putnam	Danvers, Mass	Nov. 20, 1838
Splitting leather and skins, shaving	Aug. S. Dawley	Boston, Mass	Mar. 22, 1831
Splitting leather, and pairing	Herrick Aiken	Middlesex, Mass	June 12, 1835
Splitting mill, leather	Phineas Dow	Boston, Mass	July 12, 1810
Splitting skins, machine for	Thomas O. Harrison .	New Jersey	May 19, 1800
Splitting skins, machine for	Asa W. Chickering	Massachusetts	Nov. 29, 1802
Splitting akins, machine for	William Lillie Stephen Payne	Westchester, N. Y	Nov. 9, 1805
Splitting skins, machine for Splitting skins, machine for	William Bent	Boston, Mass	Mar. 31, 1806 Feb. 24, 1808
Splitting skins, machine for	Isaac Cobb	Walpole, N. H	July 12, 1808
Splitting skins, machine for	John Woodcock	Worcester, Mass	May 8, 1809
Splitting skins, machine for, (im-		,	
provement on Bent's,)	William Brown	Philadelphia, Pa	Nov. 20, 1809
Splitting skins, machine for	William Bent	Boston, Mass	Sept. 9, 1813
Splitting skins, machine for	William Bent	Philadelphia, Pa	June 17, 1822
	James Stransfield	Virginia	Nov. 16, 1796
Stamping and staining leather Straps, fastening leather	Robert Robinson Charles F. Beverly	Newburyport, Mass. Salem, Ohio	Mar. 19, 1810 Jan. 16, 1845
Stripping leather	David Ridgeway		Oct. 26, 1809
	Samuel Frothingham		, 2000
,,	and George Harris.	Middletown, Ct	April 20, 1808
	Wm. Hollingsworth	Elkton, Md	July 30, 1811
	Alex. H. Avery	Bennington, Vt	Sept. 30, 1811
	Jos. Barker.	Deerfield, N. Y	Jan. 10, 1812
	Samuel Currie	Philadelphia, Pa	Mar. 28, 1812
Tanning	Chr. Luther & J. Smith, assigned to Daniel		
	Renner	Georgetown, D. C.	May 5, 1812
Tanning	Wm. Edwards	Northampton, Mass.	Oct. 19, 1812
Tanning	Wm. Edwards	Northampton, Mass.	April 3, 1816
	Bradford A. Potter	Manlius, N. Y	Sept. 26, 1816
	Leonard Jacobs	Missouri	Feb. 10, 1822
	Joshua Galbraith J. Wampler & G. Mat	Trenton, N. J	Oct. 15, 1823
- amung	thew	Steubenville, Ohio	Aug. 27, 1824
Tanning	Henry Bretney	Lebanon, Ohio	Mar. 24, 1825
Tanning	Samuel and Amos Wil-		•
_ 1	_ liams	Orange, N. J	Nov. 12, 1825
	Leonard Jacobs	Richmond, Va	Mar. 1, 1826
	Osmond Cogswell	Cincinnati, Ohio	Sept. 18, 1827
Tenning	Hy. C. Locker, adm'r of Henry Locker	Lancaster, Pa	Mar. 18, 1836
Tanning	Laban Emery	New York	Mar. 19, 1836
	Simeon Heath	Pike, N. Y	May 23, 1836
	John Cox	Gorgie Mills, Edin-	<b>,</b> ,
		bro', Scotland	June 5, 1844
Panning	Adam Kettering & A.		• •
Panaina .		Hempfield, Penn	June 24, 1844
Fanning	white Brown		Aug. 1, 1844
		Dayton, Ohio Akron, Ohio	April 10, 1845 Nov 1, 1845
	William Germar	Easton, Pa	July 2, 1846
Fanning apparatus, removing the			,, 2010
refuse bark from the letchers	Wm. Browne	Mooresville, N. Y.	Nov. 2, 1831
Canning, bark for	Daniel Williams	Boston, Mass	Feb. 5, 1836
l'anning, bark of chesnut tree	Wm. Sheldon	Springfield, Mass	Feb. 26, 1819

	<u> </u>		
MYBNYIONS OR DISCOVERIES.	PATENTEES.	regidence.	WEEN MOUED.
Tanning breaking fleshing and			
Tanning, breaking, fleshing and hairing hides	Johnson Dunaway	Woodville, Va	May 13, 1834
scouring hides	Josiah Bonney James R. Deniston George C. Close and	Connersville, Ind	
	Edward Field Jonathan Prescott	Port Chester, N. Y.	April 22, 1845
Tanning and currying Tanning, handling hides in the vats		Augusta, Me Mechanicstown, Md.	Mar. 6, 1818 Jan. 9, 1834
Tanning, in hemlock	Jno. Lansing, jr  Caleb Atwater	Albany, N. Y	April 20, 1819 June 2, 1813
Tanning hides	Edward Siter	Genoa, N. Y Spread Eagle, Pa	Aug. 14, 1810
Tanning hides	Jas. Batchelder John Lippincott and	Grafton, N. H	
Tanning hides	John Hillyer Abraham Van Pelt	Philadelphia, Pa Bedminster, N. J	April 14, 1835 July 8, 1842
Tanning hides, liming and hand- ling in	Caleb Hauk	Monroe county, Va.	May 3, 1832
Tanning hides by machinery	Joseph Fleming	Lebanon tp., Pa. Sandiston tp., N.J.	July 20, 1842
Tanning hides and skins by com-	Thos. G. Peachy	Williamsburg, Pa	Dec. 28, 1833
Pression rollers	E. S. and D. Bell Richard T. Downing	Monroe county, Pa	July 28, 1834 April 30, 1840
Tanning hides and skins	or George D. Smith. William Herapath	Philadelphia, Bristel, England	May 30, 1839
Tanning hides and skins	Daniel Howell, assiee of W. Buchanan	New York	Dec. 17, 1840
Tanning hides and skins Tanning, improvement in	Simeon Guilford Isaac M. Belote	Lebanon, Pa Fayeue county, Ten.	Nov. 10, 1841 April 14, 1835
Tanning, (improvement on Dawes' mode,)	Mark W. Jenkins	Baltimore, Md	Mar. 10, 1834
Tanning leather	Jas. Davis Samuel Parker	Massachusetts Billerica, Mass	April 14, 1796 July 9, 1808
Tanning leather	Jos. Barker William Browne	New York	May 10, 1911 Nov. 11, 1860
Tanning leather	Osmund Cogswell Isaac Dawes	Cincinnati, Ohio Goshen Farm, Md	Jan. 29, 1831 April 21, 1831
Tanning leather	Joseph Blunt L. C. Dudley and S.	New York	Nov. 30, 1892
Tanning leather, and mode of lift-	Brooks	Portland, Me	Oct. 93, 1854
Tanning leather, vats for	W. L. J. C. Rones &	New Jersey	Feb. 20, 1800
Tanning by machinery	Silas Taylor Joseph Southwick	Bedford, Va Boston, Mass	June 20, 1888 April 11, 1882
Tanning by machinery Tenning, machinery for preparing	David H. Meson	Dahlonega, Georgia.	Dec. 5, 1842
Tanning, manufacturing hides	Lewis Newsom E. Shove and T. Hunt	Gallipolis, Qhio Locke, N. Y	Mar. 8, 1892 May 13, 1898
Tunning or manufacturing leather Tanning or manufacturing leather Tunning, preparing extract of back	George Barr	Ashburnham, Mass. Watertown, N. Y	Jan. 23, 1834
for	Otis Batchelder	Bedford, N. H Beading, Pa	Nov. 7, 1835 Oct. 17, 1835
Tanning, process of	Themes Chase, (2001)	New York City	Į.
Tanning, removing the refuse bark from letchess.			
Tanning, scraping flesh and hair from kidos	j i		ľ
Tanning skins and hides	George H. Richards	New York	Dec. 16, 1833
* Antodated Nov. 1	o, 1537 † Reissue	d October, 31 1831.	

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INVENTIONS OR DISCOVERIES.	PATENTEES	RESIDENCE.	WHEN ISSUED.
Tanning sole leather	Wm. Edwards	Northampton, Mass.	Dec. 30, 1812
Tanning sole leather	Abel H. Buzzel	N.Bridgewater, Mass	Aug. 25, 1840
Tanning, and tanyards	Leonard B. Johnson	Tompkinsville, Ky	Mar. 3, 1829
Tanning, without the use of lime,			
or sweating hides	Edward Evans	Salem township, Pa.	Dec. 28, 1832
Tan-vats	Nathl. Burley	Strafford, N. H	Jan. 24, 1811
Tan-vats	John W. Moon	Roxbury, Mass	April 18, 1833
Tan-vats, constructing	Aaron Higgins	Florence, Ohio	April 24, 1826
Tan-vats, heating water in them	Allen Henderson	Gt. Barrington, Mass.	
Tan-vats, or letchers, and convey-			
ing trough	William Brown	Herkimer, N. Y	June 28, 1832
Tan-vats, reservoirs, constructing			·
with cement	John C. Johnson	Catakill, N. Y	Feb. 20, 1835
Tanyard	Abram. Ccnwell	Fayette county, Ind.	Nov. 4, 1831
Trunks, leather	Robert C. Martin	Philadelphia, Pa	Aug. 28, 1824
Trunks, rendering them water-			
proof	Peter Getz	Lancaster Pa	Nov. 7, 1840
Trunks, and settee	Benjamin Morris	New Richmond, O	Jan. 16, 1835
Trunks, travelling	Washington Sweetzer.		July 1, 1836
Trunks, travelling, fire and water		,	
proof	Charles F. Miller	Lancaster, Pa	June 20, 1838
Trunks, travelling	John Fitzgibbon	Boston, Mass	Oct. 11, 1841
Trunks, travelling	John W. Beackley	Philadelphia, Pa	May 26, 1843
Trunk, travelling	James Hibson	New York, N. Y	April 4, 1846
Trunk, travelling and life preserver		New Orleans, La	Aug. 18, 1846
Trunks, valises	James W. Noble	Pittsfield, Mass	Jan. 15, 1836
Trunks, valises	William Brown	Brooklyn, N. Y	July 1, 1836
Trunks, valises	Matthias Steiner	New York City	Dec. 20, 1837
Uniting leather by medal or wood-		•	•
en pegs	Sidney B. Brown	Westchester co.N.Y.	April 2, 1814
Visors, leather, machine for cut-		,	.,
ting, for caps	John Hawkins	Roxbury, Mass	Feb. 20, 1832
Water proof leather	David Kizer	New York	Nov. 19, 1827
Water proof leather	Abraham Straub	Milton, Pa	June 30, 1828
Water proof leather and cloth	J. L. Comstock	Hartford, Ct	Jan. 21, 1828
Water proof leather, elastic	Peter L. Lannay	Baltimoré, Md	Dec. 4, 1816
Whips, platting, machine for cov-	,	,	
ering	Seymour Holladay	Westfield, Mass	April 4, 1838
Wool, removing from skins	F. and H. Robinson	Wilmington, Del	May 15, 1841

### CLASS No. XVII.

# HOUSEHOLD FURNITURE,

Machines and Implements for Domestic Purposes, including Washing Machines, Bread and Cracker Machines, Feather Dressing, &c.

### LIST OF PATENTS.

CLASS XVII.—HOUSEHOLD FURNITURE, Machines and Implements for Domestic purposes, including Washing Machines, Bread and Cracker Machines, Feather Dressing, &c.

INVENTIONS OR DISCOVERIES.	Patentees.	residence.	WHEN ISSUED.
Bed-bug, destroying	Richard Sealey	New York	June 20, 1823
Bed-bug, destroying	Joseph H. Clarke	Connersville, Ind	May 31, 1834
Bed-bug, destroying	Britain Garrand	Marysville, Tenn	Mar. 12, 1836
Bed-bug, destroying by steam	Benjamin Overman	Greensborough, N.C	June 22, 1832
Bed-bug, destroying by steam	Thomas Miller	Newburgh, N. Y	Nov. 19, 1833
Bed-bug, destroying by steam	Jonathan Howlet	Greensborough, N.C	July 10, 1834
Bed-bug, preventing ascent of posts			June 13, 1829
Beds, cork, to the filling of	James A. Clarke	Georgetown, D. C.	Dec. 28, 1832
Beds, palm leaf, or grass*	Stephen Bates	Boston, Mass	
Rede enring	Joseph C. Smith	Cambridgeport, N.Y	
Beds, spring.  Beds, spring, elevating and depres-	Josiah French	Ware, Mass	Aug. 25, 1831
sous, spring, elevating and depres-	A1 C 77.11	37 371.	0-4 1 1001
sing surface	Alonzo G. Hull	New York	Oct. 1, 1831
Beds, spring, spiral	M. F. Moody and B.	37 3 . 36	4 "10 1004
The January Control of the Control	_Eastman	Northampton, Mass.	April 13, 1836
Beds, spring, spiral, conical	W. J. and A.E. Lyman	East Hampton, Mass	
Beds, warming	Peter Lannay	Baltimore, Md	Nov. 11, 1823
Bedstead	Ludwick C. Kuhn	Philadelphia, Pa	Aug. 10, 1791
Bedstead	Ward Gillman & Wm.		
	Jackson	Portsmouth, N. H	Mar. 19, 1804
Bedstead	John R. Cox	Philadelphia, Pa	Oct. 16, 1812
Bedstead	Daniel Powles	Baltimore, Md	Oct. 31, 1821
Bedstead	Peregrine Williamson	Baltimore, Md	Dec. 6, 1821
Bedstead	Peregrine Williamson	Baltimore, Md	Oct. 17, 1822
Bedstead	Leonard Foster	Boston, Mass	June 25, 1824
Bedstead	O. R. Herbert	Mount Pleasant, N.J	July 14, 1824
Bedstead	Isaac Cooper	Baltimore, Md	Feb. 22, 1825
Bodstead	William Bell	Lexington, Ky	Nov. 7, 1826
Bedstead	Samuel Davis	Catskill, N. Y	Dec. 29, 1826
Bedstead	Silas Hyde	Arcadia, N. Y	May 2, 1828
Bedstead	Harvey Wilbur	Newburyport, Mass	
Bedstead	E. Rogers & M. Pear-	,	
	son	Essex county, Mass.	June 11, 1829
Bedstead	Rufus Belt	Centerville, Ky	Feb. 22, 1831
Bedstead	William Gambel	Baltimore, Md	Aug. 25, 1831
Bedstead	Cornelius Van Noy	Lexington, Ky	Jan. 10, 1832
Bedstead	Bethel Judd	New London, Ct	May 25, 1832
Bedstead	Henry Reisinger	York, Pa	Aug. 18, 1832
Bedstead	Gideon Vaughan, jr	Philadelphia, Pa	Sept. 18, 1833
Bedstead	Isaac Eaton	Mount Gilead, Va	Dec. 31, 1833
Bedstead	Robert Miller	Glasgow, Ky	May 23, 1834
Bedstead	Ezra Coleman	New Bedford, Mass.	Oct. 31, 1834
Bedstead		ricw Dedicin, Mass.	000 01, 1001
Doubloud:	B. Humphreyville and	Momintown N I	Dec 17 1994
Bedstead	J. King	Morristown, N. J.	Dec. 17, 1834
Bedstead	Perry Prettyman	Georgetown, Del	Dec. 31, 1834
Bedstead	B. F. Berry	Utica, N. Y	April 22, 1835
	Perry Prettyman	Georgetown, Del	Sept. 26, 1835
Bedstead	Jonas Maguire	Philadelphia, Pa	Jan. 15, 1836
Bedstead	Christian Kniseley	Meadville, Pa	June 16, 1836
Bedstead	Samuel P. Smith	Salina, N. Y	Oct. 26, 1838
Bedstead	Charles W. Curtis	New Haven, Conn	Dec. 12, 1842
Bedstead	John Morris	Derby, Ct	July 8, 1843
	,	1	1

^{*} Reissued March 18, 1841; E. Howe, assignee.

IMPENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHEN ISSUED.
Bedstead	Wm. F. Converse, R.		
	H. Penny, and R. S. Hanniford	Harrison, Ohio	Dec. 31, 1844
Bedstead*	C. S. Debow	New York, N. Y	April 18, 1846
Bedstead	Henry Pace, sr Joseph W. Adams, as-	Cincinnati, Ohio	Dec. 10, 1846
•	si'r to Lewis & Clapp		Sept. 10, 1846
Bedstead, alleviator  Bedstead, alleviator	John Lowe	Whitesborough, N. Y	Oct. 25, 1966 Nov. 21, 1831
Bedsteads, attaching curtain posts	·		
Bedstead and bed for the sick	Thomas Early Jer. Bailey	Washington co., Ten Philadelphia, Pa	Jan. 8, 1839 Mar. 18, 1825
Bedstead, bisected	Peter Breasted	Green county, N. Y.	Feb. 21, 1996
Bedstead, bureau	Henry W. Kingman. Williams Woolley	New York, N. Y New York	Oct. 12, 1844 Sept. 28, 1831
Bedstead, constructing	C. J. Fountain, J. F.		, ,
	Adams and G. F. Hillyer	New York	April 20, 1830
Bedstead, constructing	John Hart	Lebanon, Ky	Mar. 3, 1846
Bedstead, constructing and cording	Martin Engel	Easton, Pa	April 94, 1846
Bedstead, cot	Peregrine Williamson.	Baltimore, Md	Nov. 11, 1836
Bedstead, cot	Samuel Clarke	New York	Mar. 23, 1990
Bedstead, cutting screws on the ends of the rails of	Jacob Lindly	Cynthiana, Ky	Oct. 10, 1846
Bedstead, cutting screws on the			T.4- 00 1041
ends of the rails of	Joel Thompson	Cynthiana, Ky	July 99, 1841
holes in the rails of	Thomas Cole	Greensburg, Ind	Nov. 19, 1841
Bedstead, elevating, for the sick Bedstead, dovetailed joint	John Mitchell	Grafton, Vt	Oct. 12, 1836 Jan. 11, 1826
Bedstead, draw key	John McClintic	Chambersburg, Pa	Nov. 2, 1896
Bedstead, draw key, double tenor Bedstead fastening	Samuel Cooper Edwin H. Badger	Chambersburg, Pa Petersburg, Va	Nov. 5, 1895 April 3, 1896
Bedstead fastening	Wm. Swift and Wm.		
Bedstead fastening	Ottiwell	New Bedford, Mass New York	Oct. 11, 1896 April 18, 1689
Bedstead fastening	John Richman	Lancaster, Ohio	Dec. 28, 1839
Bedstead fastening	George Porter Ira McLaughlin	Cincinnati, Ohio Sunderland, Vt	Dec. 30, 1833 April 26, 1836
Bodstead fastening	William Bell	Lexington, Ky	Feb. 15, 1638
Bedstead fastening	Pardon Post Laurens Kent	New Haven, Ct Dorset, Vt	June 12, 1896 Sept. 12, 1896
Bedstead fastening	Adin Gauat, assignee	Dorbet, Va	Ocpc. 12, 1000
Pedateral fratering	of Ira Smith	Chagrin Falls, Ohio.	Oct. 25, 1845 Dec. 18, 1866
Bedstead fastening	Joseph Rodefer Wm. H. Sabin	Cincinnati, Ohio New Milford, Pa	May 12, 1840
Bedstead fastening	Hermann C. Ernst	Vandalia, Ill	Feb. 38, 1841 Jan. 8, 1849
Bedstead fastening  Bedstead fastening	James Knipe	New York, N. Y Sandy Hill, N. Y	April 16, 1849
Bedstead fastening	John Fowler	Pittsburg, Pa	July 11, 1849
Bedstead fasteningBedstead fastening, attaching and	Joseph Guild	Cincinnati, Ohio	Dec. 29, 1843
stretching sacking	Mahlon Gregg	Philadelphia, Pa	Mar. 25, 1846
Bedstead fastening, easy draft Bedstead key	J. Blake & D. Cushing	Monmouth co., N. J Providence, R. I	Jan. 6, 1819 Dec. 14, 1830
Bedstead machine	Aaron Stedman	Pittsford, N. Y	Jan. 16, 18 <b>3</b> 5
Bedstead, machine for cutting screws on		Glasgow, Ky	Mar. 4, 1846
Bedstead, making and putting to-	John Haslet and Cor-		·
gether.  Bedstead and mattress	nelius Devett Edmund Cherrington.	Irville, Ohio	May 9, 1846 Nov. 23, 1835
Bedstead, parturient invalid	J. N. Robbins	lroy, Mo	UCL 100, 1002
Bedstead, portable			

^{*} Antedated April 11, 1846.



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inventions or discoveries.	Paténtèes.	RESIDENCE.	WREN ISSUED.
Bedstead, portable metallic Bedstead rails, cutting screws on	Jos. Homer	New York	Jan. 28, 1818
the ends of	Jacob Lindly John Copan	Cynthiana, Ky New York	June 20, 1838 June 11, 1839
Bedstead, revolving rail	Garret Post	Auburn, N. Y	Oct. 11, 1828
Bedstead, sacking bottoms	Daniel Powles	Baltimore, Md	Jan. 26, 1827
Bedstead, sacking bottoms of	Isaac Cooper	Johnstown, Pa	Oct. 7, 1844
Bedstead, sacking, stretching	Wm. S. Anderson	Shelbyville, Tenn	June 4, 1838
Bedstead screws, cutting	Joseph Guild	Cincinnati, Ohio	Oct. 29, 1846
Bedstead, secret	Williams Woolley	New York	May 17, 1830
tees	Williams Woolley	New York	Oct. 3, 1831
the rails of	John P. Allen	Manchester, Mass	Nov. 3, 1841
Bedstead for the sick	Avery Smith	Milo, N. Y	July 12, 1836
Bedstead for the sick	William Leo Wolfe	New York	July 15, 1834
Bedstead for the sick*	Williams Woolley	New York	Aug. 30, 1834
Bedstead for the sick	David Anthony	Adams, Mass	Sept. 13, 1834
Bedstead for the sick	Nathaniel Richardson. Williams Woolley	New York city	Sept. 9, 1835 April 16, 1842
Bedstead, sofas, settees	John P. Allen	Manchester, Mass	May 19, 1832
Bedstead, sofa	Alexander D. Farrell.	New York city	May 2, 1843
Bedstead, sofa	William Clows	Hartwood, N. Y	June 24, 1843
Bedstead, sofas, settees	Francis Breckels	New York	April 7, 1834
Bedstead, sofa	Nicholas McGraw	New York city	Dec. 10, 1836
Bedstead, sofa	James M. Meschutt	New York	July 23, 1841
Bedstead, sofa, raising or inclining		Boston, Mass	
Bedstead, sofa	John Needham Joel Pratt, 2d	New York city Hartford, Conn	
Bedstead, sofa	G.L.F. Griswold, ass'e		11pm 1, 1042
	of G. Sickels	Middletown, Ct	Dec. 4, 1844
Bedstead, sofa, sliding Bedstead, tightening sacking bot-	George W. Wode	New York city	June 12, 1838
tom of	John Hart	Nicholasville, Ky	June 21, 1839
tom of	Benijah Bosworth	Fayette county, Ky.	Dec. 14, 1836
Bedstead, wardrobe	Zebulon C. Favor	Boston, Mass	April 2, 1838
Bedstead, windlass	Leonard Foster	Boston, Mass	Feb. 16, 1824
Bedstead, windlass	Charles Adams		Feb. 26, 1825
Bedsteads, windlass	Thomas Lamb		Nov. 13, 1846
Bells, hanging	Arthur Lynar		Dec. 24, 1819
Bells, hanging	James Russell Seth Fuller	1	Oct. 16, 1829 Dec. 26, 1839
Bells, hanging	Joseph Currier		Jan. 23, 1834
Bells, hanging and mode of con-			
structing	Ebenezer Dewey	New York, N. Y	April 10, 183
Bells, household, hanging	Edward Stetson		
Bread, biscuit	Ephraim Treadwell		May 18, 1820
Bread, finisher	Ephraim Treadwell		
Bread, knife for cutting Bread, making, constructing ma-			
Chines for		Bath, Me	
Bread, makingBread, making	William Banks	Manlius, N. Y	T 1 0 000
Bread, making ship	George Richards	Middleton Ct.	Jan. 8, 181
Bread, raising	Abel Conant	Lowell, Mass	Oct. 12, 184
Bread, raising Brooms, machine for making	Jacob H. Hinton	Lancaster, Pa	Mar. 13, 184
Broom making.  Broom making.  Broom making.  Brooms, metallic clasp or head for	Shadrack H. Weed	Poughkeepsie, N.Y.	Feb. 3, 1819
Broom making	Adam Sclater	Oxford towns'p, Pa.	Feb. 15, 182
Broom making	John M. Spooner	Beichertown, Mass.	April 28, 183
Brooms, metallic clasp or head for	Isaac Cheney	Leyden, Mass	June 25, 1835
Brooms, winding wire or twine or Brush, art of making	William Steele	New York	Aug. 17, 104
Brush block	Stacy Costill.	Philadelphia, Pa	Feb. 25, 182
	nal improvement Feb. 22. 1		001 100; 10161

†Additional improvement Peb. 22, 1838.

Brush, brooms of grass  Brush, broom, and other handles. Evans Turk  Brushes, filling blocks with brisdues for.  Brushes, filling blocks with brisdues for.  Brush, manchine for making broom corn  Brush, manchine for white washing?  Brush, manufacturing  David Wooster  Brushes, scrubbing  George Carver  Chairs, carubing  Chairs, bottoms  Chairs, bottoms  Chairs, bottoms  Chairs, convalescing  Chairs, convalescing  Chairs, convalescing  Chairs, convalescing  Chairs, couches, and sofas  Chairs, casy  Chairs, easy  Chairs, easy.	THE PROPERTY OF THE COUNTY OF	DATENTER	RESIDENCE.	WHÊN ISSUED.
Brush, broom, and other handless Brushes, attaching the bristles for.  Brushes, attaching the bristles for.  Brushes, machine for making broom corn.  Brush, machine for white washing Brush, manufacturing.  Brush, manufacturing.  John J. Adams.  Brushes, scrubbing.  Brush trimming the bristles of Brush trimming machine.  Jacob Daley.  Benjamin Labbitt.  Benjamin Babitt.  Benjamin Pabitt.  Benjamin Babitt.  Benjamin Pabitt.  Benjamin Babitt.  Benjamin Pabitt.  Benjamin Babitt.  Benjamin Pabitt.  Benjamin Babitt.  Benjamin Pabitt.  Benjamin Babitt.  Benjamin Pabitt.  Benjamin Babitt.  Benjamin Palamin.  Benjamin Babitt.  Benj	INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE:	
Brushe, broom, and other handles Brushes, attaching the bristles to: Brushes, filling blocks with biristles for services of the property of th	Brush, brooms of grass	S. H. Weed	New York	Feb. 28, 1895
Brushes, attaching the bristles to. Brushes, elling blocks with bristles for.  Brush man machine for making broom corn.  Brush mannafacturing.  Brush mannafacturing.  Brush mannafacturing.  Brush mannafacturing.  John J. Adams.  Boston, Mass.  Charlestown, Mass.  Albary, Y.  Aug. 1, 184.  Feb. 22, 181.  June 21, 182.  June 22, 182.  June 22, 182.  Location, N.Y.  Aug. 1, 184.  Feb. 22, 181.  Location, N.Y.  Aug. 1, 184.  Feb. 22, 182.  June 22, 182.  Location, Mass.  Albary, N.Y.  Aug. 17, 183.  Location, N.Y.  Aug. 17, 183.		Evans Turk	Harrisburg, Pa	
Brushes, filling blocks with brise les for.  Brush, machine for making broom corn.  Brush, machine for white washing brush, manchine for white washing Elijah S. Curtis.  Brush, mannfacturing.  Brush, mannfacturing.  Brush, mannfacturing.  Brush, mannfacturing.  Brush, mannfacturing.  George Carver.  Chairs, carubbing.  George Carver.  Chairs, correst bring.  Brush trimming the bristles of.  Brush trimming machine.  Lacob Daley.  Lacob Daley.  Lacob Daley.  Lacob Daley.  Lacob Daley.  Baltimore, Md.  Feb. 22, 182.  Lacob Daley.  Baltimore, Md.  Lacob Daley.  Baltimore, M		Robert B. Lewis		Feb. 23, 1841
Brush, machine for making broom corn.  Brush machine for white washing Brush, manufacturing.  Brush, manufacturing.  John J. Adams.  Brushes, scrubbing.  Brushes, scrubbing.  Brushes, scrubing in the bristles of Brushes, crimming the bristles of Brush the manufacturing.  Brush the manufacturing.  John J. Adams.  Boston, Mass.  Charlestown, Mass.  George Carver.  Chambersburg, Pa.  Bazuel Taylor.  E. Cambridge.  Basuel Taylor.  E. Cambridge.  Basw May 17, 183.  New York. N. Y.  Dech 14, 184.  Bastimore, Md.  Feb. 22, 182.  Mar. 12, 184.  Bastimore, Md.  May 1, 184.  Brush.  Brush.  Feb. 22, 182.  Barlor.  Brush.  Brush.  Brush.  Brush.  Mar. 12, 184.  Brush.  Br				May 1, 1845
Brush, mannfacturing.  David Wooster.  China, N. Y.  Feb. 16, 182  Brush, mannfacturing.  John J. Adams.  Boston, Mass.  Frushes, scrubbing.  George Carver.  Chambersburg, Pa.  Brushes, trimming the bristles of, Saxuel Taylor.  E. Cambridge. Mass.  May 17, 184  Brushes, trimming machine.  Jacob Daley.  Belimore, Md.  Feb. 22, 184  Brushes, trimming machine.  James Elliot, jr.  Philadelphia, Pa.  Oct. 29, 181  Chairs, bottoms, table tops.  John Wall.  John Wall.  John Wall.  John Wall.  John Wall.  John Wall.  John Mead.  Albany, N. Y.  Aug. 17, 183  Oct. 29, 181  Oct. 29, 181  Chairs, casy.  Adrew Wood.  Chairs, convalescing.  Chairs, casy.  Adrew Wood.  Chairs, convalescing.  Adrew Wood.  Chairs, reclining.  Adrew Wood.  Chairs, convalescing.  Adrew Wood.  Chairs, convalescing.  Adrew Wood.  Chairs, reclining.  Adrew Wood.  Adrew Wood.  Adrew Wood	tles for.	Abbott R. Davis	Boston, Mass	, , , , , , , , , , , , , , , , , , , ,
Brush, mannfacturing.  David Wooster.  China, N. Y.  Feb. 16, 182  Brush, mannfacturing.  John J. Adams.  Boston, Mass.  Frushes, scrubbing.  George Carver.  Chambersburg, Pa.  Brushes, trimming the bristles of, Saxuel Taylor.  E. Cambridge. Mass.  May 17, 184  Brushes, trimming machine.  Jacob Daley.  Belimore, Md.  Feb. 22, 184  Brushes, trimming machine.  James Elliot, jr.  Philadelphia, Pa.  Oct. 29, 181  Chairs, bottoms, table tops.  John Wall.  John Wall.  John Wall.  John Wall.  John Wall.  John Wall.  John Mead.  Albany, N. Y.  Aug. 17, 183  Oct. 29, 181  Oct. 29, 181  Chairs, casy.  Adrew Wood.  Chairs, convalescing.  Chairs, casy.  Adrew Wood.  Chairs, convalescing.  Adrew Wood.  Chairs, reclining.  Adrew Wood.  Chairs, convalescing.  Adrew Wood.  Chairs, convalescing.  Adrew Wood.  Chairs, reclining.  Adrew Wood.  Adrew Wood.  Adrew Wood	Brush, machine for making broom		n. n	Dec 01 1910
Brush, manufacturing. John J. Adams Boston, Mass. Mar. 12, 184 Brushes, scrubbing. George Carver. Chambersburg, Pa. Aug. 1, 184 Chairs, contined rocking & castor Chairs, convaleacing. John Wall Chairs, convaleacing. John Wall Chairs, convaleacing. Chairs, convaleacing. Chairs, convaleacing. Chairs, easy. John Mead. Chairs, easy. John Barid Brown. John Mead. Chairs, easy. Benj. F. Hays. Pittsfield, Mass. Dec. 17, 183 Chairs, easy. Benj. F. Hays. Pittsfield, Mass. Dec. 17, 183 Chairs, posts. Chairs, contained for turning and curing. Chair, rocking. Chairs, connecting frames of. Chairs, rocking. Chairs, combendine. Chairs, casy. Benj. F. Hays. Pittsfield, Mass. Aug. 20, 184 Chairs, easy. Andrew Wood. Chairs, norsing. Chairs, posts. Chairs, casy. Benj. F. Hays. Pittsfield, Mass. Dec. 17, 183 Chairs, posts. Chairs, easy. Andrew Wood. Chairs, norsing. Chairs, recumbent! Henry P. Kennedy. New York. Aug. 20, 184 Chair, recumbent! Henry P. Kennedy. P. Kennedy. P. King. Chair, rocking.	corn		Byberry, Pa	
Brush, manufacturing Brushes, scrubbing.  George Carver.  Brush trimming the bristles of.  Brush trimming machine.  Brush trimming mass.  Boston, Mass.  Boston, Mass.  Boston, Mass.  Boston, Mass.  Boston, Mass.  Brush trimming trip. line. private for search for s		Elijah S. Curus	Charlestown, Mass.	
Brushes, scrubbing.  George Carver.  Brushes, trimming the bristles of, Samuel Taylor.  Brushes, trimming the bristles of, Samuel Taylor.  Chairs.  Chairs.  Elis F. Benjamin.  Aber Ellis.  Chairs, bottoms.  Chairs, bottoms.  Chairs, bottoms.  Chairs, bottoms.  Chairs, combined rocking & castor  Chairs, counbined rocking & castor  Chairs, consibined rocking & castor  Chairs, convalescing.  Chairs, convalescing.  Chairs, convalescing.  Chairs, convalescing.  Chairs, convalescing.  Chairs, capt.  Chairs, capt.  Andrew Wood.  Chairs, capt.  Andrew Wood.  Chairs, reclaining.  Chairs, recking.  Chai				Mar. 12, 1842
Brushes, trimming the bristles of Brush trimming machine.  Brush trimming machine.  Brush trimming machine.  Brush trimming machine.  Benjamin Dabbitt.  Benjamin Dabitt.  Benjamin Dabbitt.  Benjamin Dabitt.  Benjamin Dabitt.  Benjamin Dabitt.  Benjamin Dabitt.  Belahmore, Md. Peb. 22, 183.  Belatimore, Md. Peb. 22, 183.  Belatimore, Md. Peb. 22, 183.  Belatimore, Md. Peb. 22, 184.  New York city. Oct. 5, 183.  Boston, Mass. June 14, 181.  Beston, Mass. June 14, 181.  Beston, Mass. Dec. 17, 163.  Bes				
Brush trimming machine. Chairs. Jacob Daley. Chairs. Jacob Daley. Chairs, bottoms. Chairs, convolescing. Chairs, convo				May 17, 1844
Chairs.   Jacob Daley   Baltimore, Md   Feb. 22, 182*   Chairs   Dottoms   Abner Ellis   Dedham, Mass   June 12, 181   Chairs, bottoms   John Mall   Utica, N. Y   Aug. 17, 183.   Chairs, combined rocking & castor   Chairs, convolescing   John David Brown   Chairs, convolescing   John Mad   Chairs, couches, and sofas.   Chairs, couches, and sofas.   Chairs, couches, and sofas.   Chairs, castor   Chairs, couches, and sofas.   Chairs, castor   Cha			New York N. Y.	Oct. 14, 1846
Chairs, bottoms. Abner Ellis. Dedham, Mass. June 29, 181 Chairs, bottoms. James Elliot, jr. Philadelphia, Pa. May 26, 181 Chairs, combined rocking & castor Chairs, cast			Reltimore Md	
Chairs, bottoms. James Ellis. Dedham, Mass. June 12, 1811 Chairs, bottoms, table tops. John Wall Oct. 29, 1811 Chairs, combined rocking & castor Chairs, convolescing. John Madal New York city. Oct. 5, 183 Chairs, couches, and sofas. Chairs and sofas. Chair			Utica. N. Y	Aug. 17, 1835
Chairs, bottoms, table tops. Chairs, combined rocking & castor! Chairs, convalescing. Chairs, concles, and sofss. Chairs, easy. Andrew Wood. Chairs, nothine. Chair, recumbent! Chair, recumbent! Chair, recumbent! Henry P. Kennedy. Chair, recwing. Chair, recviving. Chair, rocking. Chair, rocking. Chair, rocking. Chairs, rockin				June 12, 1811
Chairs, bottoms, table tops. Chairs, combined rocking & castor Chairs, convalescing. Chairs, convalescing. Chairs, convalescing. Chairs, couches, and sofas. Chairs, casy. Andrew Wood. Chairs, castor, New York. Chairs, castric and pivot. Chairs, machine. Chairs, nursing Chairs, posts. Chairs, posts. Chairs, reclaining Chair, revolving. Chair, revolving. Chair, revolving. Chair, rocking. Chair, rocking. Chair, rocking. Chair, rocking. Chairs, commedating. Chair, rocking. Chairs, commediating. Chair, rocking. Chairs, rocking. Cha				May 26, 1812
Chairs, combined rocking & castor Chairs, convelescing.  Chairs, couches, and sofas. Chairs, eagle.  Chairs, eagle.  Chairs, easy. Chairs, eas			• '	Oct. 29, 1816
Chairs, convalescing. Chairs, couches, and sofas. Charles Adams. Chairs, cagle. Villiam J. Weaver. Joseph B. Finney. Chairs, easy. Andrew Wood. Chairs, cocentric and pivot. Lordan L. Mott. Chairs, machine. Chairs, nursing Chairs, recentric and pivot. Chairs, nursing Chairs, recentric and pivot. Chairs, recumbent; Chair, revolving Chair, revolving Chair, revolving Chair, recking. Chair, rocking. Chairs, rocking. C	Chairs, combined rocking & castor		New York city	
Chairs, couches, and sofas. Chairs, eagle. Chairs, eagly. Chairs, easy. Chairs, east.	Chairs, convalescing		Albany, N. Y	Mar. 14, 1817
Chairs, easy. Joseph B. Finney. Keene, N. H. May 8, 1822 Chairs, easy. Benj. F. Hays. Pittsfield, Mass. Dec. 17, 183 Chairs, easy. Andrew Wood. Charlestown, Va. June 28, 183 Chairs, elastic. Samuel Gragg. Boston, Mass. Aug. 31, 180 Chairs, eccentric and pivot. Jordan L. Mott. New York. Aug. 20, 184 Chairs, machine. Ichabod Lewis. Irville, Ohio. May 18, 182 Chairs, posts. Elijah Farrington. New York. Oct. 29, 181 Chairs, posts. Elijah Farrington. New York. Oct. 29, 181 Chair, recumbent Henry P. Kennedy. Philadelphia, Pa. May 22, 184 Chair, recking. Matthew W. King. New York. Oct. 29, 181 Chair, rocking. Charles L. Bander. Utica, N. Y. April 6, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 5, 184 Chair, rocking. Charles A. Ballard. Boston, Mass. Dec. 2, 183 Clothes horse, connecting frames of. David Dickinson. Charles A. L. Charles A. Ballen, N. J. Mar. 12, 183 Coffee pots. David Dickinson. Charles A. L. Charles A. Charles A. L. Charles A. L. Charles A. L. Charles A. L. Charles		Charles Adams	Boston, Mass	
Chairs, easy. Benj. F. Hays. Pittsfield, Mass. Dec. 17, 183 Chairs, easys. Andrew Wood. Charlestown, Va. June 28, 183 Chairs, elastic. Samuel Gragg. Boston, Mass. Aug. 20, 184 Chairs, machine. Ichabod Lewis. Irville, Ohio. May 25, 183 Chairs, posts. Elijah Farrington. New York. Oct. 29, 181 Chairs, reclining. John Mead. Albany, N. Y. Mar. 13, 182 Chair, recoving. Matthew W. King. New York. Aug. 20, 184 Chair, recoving. Matthew W. King. New York. Aug. 25, 184 Chair, rocking. Chaires L. Bander. Utica, N. Y. Mar. 31, 184 Chair, rocking. Charles L. Bander. Utica, N. Y. Mar. 31, 184 Chair, rocking. Charles A. Ballard. Utica, N. Y. Mar. 31, 184 Chair, rocking. Charles A. Ballard. Sept. 27, 184 Chairs, rocking. Charles A. Ballard. Sept. 27, 184 Cheses, machine for turning and curing. Henry Webber. East Richfield, N. Y. April 22, 183 Clothes horse, connecting frames of. David Dickinson. Chatham, Ct. Oct. 1, 183 Coffee and tea, making. Antoni Bencini. Milton, N. C. Sept. 27, 183 Coffee pots. John R. Remington. Lowndes, Ala. Oct. 6, 184 Cotton, accommodation. John R. Remington. Lowndes, Ala. Oct. 6, 184 Couch, accommodation. John Mead. Albany, N. Y. Mar. 13, 189 Crackers and biscuit, cutting. Crackers and biscuit, cutting. Daniel Rowland. New York. Mar. 13, 189 Crackers and biscuit, cutting. Crackers and biscuit, cutting. Daniel Rowland. New York. Mar. 13, 189 Crackers, cutting. Thomas Bladen. Daniel Rowland. New York. Mar. 13, 189 Crackers, cutting. Thomas Bladen. Daniel Poole. Dauphin co. Pa. Dec. 24, 182 Crackers, cutting. Thomas Bladen. New York. May 18, 183 Crackers, cutting. Thomas Bladen. New York. May 18, 183 Crackers, cutting. Thomas Bladen. Daniel Rowland. New York. May 18, 183 Crackers, cutting. John S. Stiles. Baltimore, Md. June 13, 183 Crackers, cutting. John S. Stiles. Baltimore, Md. June 13, 183 Crackers, cutting. John S. Stiles. Baltimore, Md. June 13, 183 Crackers, cutting. John S. Stiles. Baltimore, Md. Aug. 9, 183				June 14, 1816
Chairs, easy*				May 8, 1023
Chairs, elastic Chairs, eccentric and pivot Chairs, machine Chairs, machine Chairs, nursing Chairs, nursing Chairs, posts Chairs, reclining Chairs, reclining Chairs, recumbent! Chair, recowhent! Chair, recowhent Chair, recowhent Chair, recowhent Chair, recowhent Chair, recowhent Chair, recowhent Chair, rocking Charles L. Bander Chair, rocking Charles A. Ballard. Chair, rocking Charles C. Bander Charles		Benj. F. Hays		
Chairs, eccentric and pivot. Chairs, machine. Ichabod Lewis. Irville, Ohio. May 25, 183. Chairs, posts. Chairs, posts. Chairs, posts. Chairs, posts. Chairs, reclining. Chairs, reclining. Chair, revolving. Chair, revolving. Chair, rocking. Chair, philadelphia, Pa. May 29, 183. New York. Alaug. 20, 184.				June 20, 1030
Chairs, machine.   Ichabod Lewis.   Irville, Ohio.   May 25, 183   Chairs, nursing   Andrew Wood.   Chairs, posts   Elijah Farrington   Albany, N. Y.   Mar. 13, 182   Chairs, reclining.   John Mead.   Albany, N. Y.   Mar. 18, 181   Chair, revolving.   Matthew W. King.   Chair, rocking.   Chair, rocking.   Chair, rocking.   Chair, rocking.   Chairs, rocking.   Chairs, rocking.   Chaires L. Bander.   Chaires A. Ballard   Chairs, rocking.   Chaires A. Ballard   Curing.   Charles A. Ballard   Curing.   Coffee pots.   Coffee pots.   Coffee pots.   Coffee pots.   Coffee pots.   Coffee pots.   Cot, or cross bedstead sofa.   Gerard Sickels.   Couch, accommodation.   John Mead.   Couch, variety   Crackers and biscuit, cutting.   Crackers,				Aug. 31, 1000
Chairs, nursing				May 95 1830
Chairs, posts	Chairs, machine			Mar. 13, 1822
Chairs, reclining	Chairs, nursing			
Chair, recumbent†. Henry P. Kennedy. Philadelphia, Pa. May 22, 184 Chair, rocking. Samuel H. Bean. Philadelphia, Pa. Harvey F. Kennedy. Philadelphia, Pa. May 25, 184 Chair, rocking. Charles L. Bander. Charles A. Ballard. A. C. Stiles. S. Bloomfield, Ohio. Cheese, machine for turning and curing. Clothes horse, connecting frames of. Samuel Prior. Samuel Prior. Salem, N. J. May 19, 184 Colthes vice. Samuel Prior. Salem, N. J. May 19, 184 Colthes, scouring. David Dickinson. Chatham, Ct. Oct. 1, 183 Coffee pots, design for. John R. Remington. Lowndes, Ala. Oct. 6, 184 Couch, accommodation. John R. Remington. Gerard Sickels. Middletown, Ct. Sept. 27, 184 Couch, accommodation. John Mead. Albany, N. Y. Mar. 13, 181 Crackers and biscuit, cutting. Crackers, cutting. Does Clark & H. Henderson. Scotting. Sept. 13, 183 Crackers, cutting. John & Chas. Bruce. Crackers, cutting. Crackers, cutting. Does Clark & H. Henderson. Scotting. Sept. 13, 183 Crackers, cutting. Does Clark & H. Henderson. Scotting. Sept. 13, 183 Crackers, cutting. Does Clark & H. Henderson. Scotting. Sept. 13, 183 Crackers, cutting. Does Clark & H. Henderson. Scotting. Sept. 13, 183 Crackers, cutting. Does Clark & H. Henderson. Scotting. Sept. 13, 183 Crackers, cutting. Does Clark & H. Henderson. Scotting. Sept. 13, 183 Crackers, cutting. Scotting. Scotting. Sept. 13, 183 Crackers, cutting. Scotting. Scotting. Scotting. Scotting. Scot			Albany N. Y	
Chair, revolving Matthew W. King Samuel H. Bean Philadelphia, Pa Mar. 31, 184 Chair, rocking Charles L. Bander Charles L. Bander Charles A. Ballard Utica, N. Y April 6, 184 Chair, rocking Charles A. Ballard Charles A. Charles A. Ballard Charles A. Ballard Charles A. Ballard Charles A. Charles A. Ballard Charles A. Ballard Charles A. Ballard Charles A. Charles A. Ballard Charles A. Costiles Sept. 27, 184 Charles A. Costiles Charles Charles A. Costiles Charles A. Ballard Charles A. Ballard Charles A. Costiles Charles Charles A. Costiles Charles A. Costiles Charles A. Costiles Charles Charles Charles A. Costiles Charles Ch			Philadelphia, Pa	May 22, 1841
Chair, rocking. Chair, rocking. Chair, rocking. Chair, rocking. Chair, rocking. Chair, rocking. Chairs, rocking. Chairs, rocking. Charles A. Ballard. A. C. Stiles. Chairs, rocking. Charles A. Ballard. Chairs, rocking. Charles A. Ballard. Chairs, rocking. Charles A. Ballard. Charles A. Ballard. Charles A. Ballard. Chairs, rocking. Charles A. Ballard. Charles A. Costies. Charles A. Ballard. Charles A. Cottan. A. C. Stiles. Chathan, L. Charles, N. Y. April 29, 183.				Aug. 25, 1840
Chair, rocking. Chairs A. Ballard. A. C. Stiles. S. Bloomfield, Ohio Sept. 27, 184 Chairs, rocking. Chairs, a Ballard. Chairs, a Chairs, a Ballard. Chairs, a Chair				Mar. 31, 1840
Chair, rocking. Charles A. Ballard. A. C. Stiles. Boston, Mass. Dec. 5, 184. Chairs, rocking. Cheese, machine for turning and curing. Henry Webber. East Richfield, N.Y. April 22, 183. Clothes horse, connecting frames of. Samuel Prior. Samuel Prior. Chatham, Ct. Oct. 1, 183. Coffee and tea, making. Antoni Bencini. Daniel Rowland. John R. Remington. Coffee pots. John R. Remington. Chatham, Ct. Oct. 6, 184. Coffee pots. John R. Remington. Couch, accommodation. John R. Remington. Crackers and biscuit, cutting. Crackers and biscuit, making and baking. Crackers, cutting. John S. Clark & H. Henderson. Jos. Clark & H. Henderson. Jos. Clark & H. Henderson. Jos. Clark & H. Henderson. John S. Stiles. Willington, Del. June 13, 183. Crackers, cutting. John S. Stiles. Baltimore, Md. June 13, 183. Crackers, cutting. John S. Stiles. Baltimore, Md. Aug. 9, 183.				April 6, 1842
Chairs, rocking.  Cheese, machine for turning and curing.  Clothes horse, connecting frames of.  Clothes vice.  Clothes, scouring.  Coffee and tea, making.  Coffee pots, design for  Coffee pots.  Coffee pots.  Cot, or cross bedstead sofa.  Couch, accommodation.  Couch, variety.  Crackers and biscuit, cutting.  Crackers and biscuit, making and baking.  Crackers, cutting.  Crac			Boston, Mass	Dec. 5, 1843
Cheese, machine for turning and curing.  Clothes horse, connecting frames of		A. C. Stiles	S. Bloomfield, Ohio.	Sept. 27, 1844
Curing Henry Webber East Richfield, N.Y. April 22, 183.  Clothes horse, connecting frames of Harvey Luther Providence, R. I. May 19, 184  Clothes, scouring David Dickinson Chatham, Ct Oct. 1, 183  Coffee and tea, making Antoni Bencini Milton, N. C. Sept. 27, 183.  Coffee pots Donniel Rowland Lowndes, Ala Oct. 6, 184.  Coffee pots Daniel Rowland Lowndes, Ala Oct. 6, 184.  Coffee pots John R. Remington Lowndes co., Ala Dec. 22, 184.  Couch, accommodation John Mead Albany, N. Y Mar. 13, 181.  Crackers and biscuit, cutting Daniel Poole Daniel Rowland New Orleans, La Sept. 21, 181.  Crackers and biscuit, cutting Daniel Poole D				4 100 1005
Clothes horse, connecting frames of	curing	Henry Webber	East Richfield, N.Y.	April 22, 1635
Clothes vice. Samuel Prior. Salem, N. J. Mar. 22, 183. Clothes, scouring. David Dickinson. Chatham, Ct. Oct. 1, 183. Coffee and tea, making. Antoni Bencini. Milton, N. C. Sept. 27, 183. Coffee pots, design for John R. Remington. Lowndes, Ala. Oct. 6, 184. Coffee pots. Daniel Rowland. Lowndes, Ala. Oct. 6, 184. Coffee pots. John R. Remington. Couch, accommodation. John Mead. Albany, N. Y. Mar. 13, 181. Couch, variety. Eleazer Carver. Bridgewater, Mass. June 12, 183. Crackers and biscuit, cutting. Daniel Poole. Danie	Clothes horse, connecting frames		n n .	M 10 1041
Clothes, scouring.  Clothes, scouring.  David Dickinson.  Chatham, Ct.  Oct. 1, 183  Coffee and tea, making.  John R. Remington.  Gerard Sickels.  John Mead.	of			
Coffee and tea, making.  Coffee pots, design for.  Coffee pots.  Coffee pots.  Coffee pots.  Cot, or cross bedstead sofa.  Couch, accommodation.  Crackers and biscuit, cutting.  Crackers and biscuit, making and baking.  Crackers, cutting.				
Coffee pots, design for.    John R. Remington.    Daniel Rowland.    Washington, D. C.   Sept. 17, 184  Dec. 22, 184  Cot, or cross bedstead sofa.   Gerard Sickels.    John Mead.    Jo				
Coffee pots				
Coffee pots				
Cot, or cross bedstead sofa.  Couch, accommodation.  Couch, accommodation.  Couch, variety.  Crackers and biscuit, cutting.  Crackers and biscuit, making and baking.  Crackers, cutting.  Cra				
Couch, accommodation  John Mead  Sept. 21, 181  Couch, variety  Crackers and biscuit, cutting  Crackers and biscuit, making and baking  Crackers, cutting  John Mead  Baltimore, Mass  Sept. 13, 183  Mar. 13, 181  Benjamin F. Mason  Thomas Bladen  Thomas Bladen  Jos. Clark & H. Henderson  J. P. Fairlamb & Milliamore, Md  June 13, 183  Crackers, cutting  June 13, 183  Crackers, cutting  Crackers, cutting  Crackers, cutting  Crackers, cutting  John S. Stiles  Baltimore, Md  June 13, 183  Baltimore, Md  June 13, 183  Baltimore, Md  Baltimore, Md  Albany, N. Y  Bridgewater, Mass  Sept. 21, 181  Dec. 24, 182  Eleazer Carver  Bridgewater, Mass  Sept. 13, 183  Baltimore, Md  Sept. 13, 183  Crackers, cutting  Crackers, cutting  John S. Stiles  Baltimore, Md  Albany, N. Y  Bridgewater, Mass  Sept. 13, 183  Benjamin F. Mason  Baltimore, Md  Sept. 13, 183  Baltimore, Md  Baltimore, Md  Albany, N. Y  Sept. 181  Benjamin F. Mason  Benjamin				
Couch, variety				Mar. 13, 1817
Crackers and biscuit, cutting.  Crackers and biscuit, cutting!  Crackers and biscuit, cutting!  Crackers and biscuit, cutting.  Crackers and biscuit, cutting.  Crackers and biscuit, cutting.  Crackers and biscuit, making and baking.  Crackers, cutting!  Crackers, cutting.  Duriel Poole.  Dauphin co., Pa.  Dec. 24, 182  Eph. Treadwell.  New Orleans, La.  Sept. 21, 181  New Orleans, La.  Sept. 13, 183  New Orleans, La.  Sept. 19, 184  New York  New Or				June 12, 1838
Crackers and biscuit, cutting:  Eph. Treadwell.  Benjamin F. Mason.  Thomas Bladen.  Jos. Clark & H. Henderson.  J. P. Fairlamb & Miller Dunot.  Left Dunot.  John & Chas. Bruce.  Kings co., N. Y.  Mar. 13, 183  Kennebunk Port, Me Philadelphia, Pa.  Baltimore, Md.  Sept. 13, 183  Baltimore, Md.  June 13, 183  Wilmington, Del.  June 13, 183  Baltimore, Md.  Balt				Sept. 21, 1815
Crackers and biscuit, cutting.  Crackers and biscuit, cutting.  Crackers and biscuit, making and baking.  Crackers, cutting   Donn & Chas. Bruce.  Eph. Treadwell.  Benjamin F. Mason.  Thomas Bladen.  Jos. Clark & H. Henderson.  Crackers, cutting   Jos. Clark & H. Henderson.  Baltimore, Md.  June 13, 183  Aug. 9, 183			Dauphin co., Pa	Dec. 24, 1824
Crackers and biscuit, cutting Eph. Treadwell New York May 18, 1830 Crackers and biscuit, making and baking Benjamin F. Mason Kennebunk Port, Me Philadelphia, Pa Jos. Clark & H. Henderson Baltimore, Md Sept. 13, 1830 Crackers, cutting Jos. Clark & H. Henderson Baltimore, Md June 13, 1831 Crackers, cutting J. P. Fairlamb & Miller Dunot Wilmington, Del June 13, 1831 Crackers, cutting John S. Stiles Baltimore, Md June 13, 1831 Aug. 9, 1831			Kings co., N. Y	Mar. 13, 1832
Crackers, cutting Benjamin F. Mason Crackers, cutting Benjamin F. Mason Thomas Bladen Jos. Clark & H. Henderson Crackers, cutting Baltimore, Md Crackers, cutting Dys. Clark & H. Henderson Crackers, cutting Dys. Clark & H. Henderson  Crackers, cutting Dys. Clark & H. Henderson J. P. Fairlamb & Miller Dunot Unner 13, 183 Crackers, cutting Dys. Clark & Miller Dunot John S. Stiles Baltimore, Md Wilmington, Del Baltimore, Md June 13, 183 Aug. 9, 183	Crackers and biscuit, cutting		New York	May 18, 1836
baking. Benjamin F. Mason Kennebunk Port, Me June 0, 183. Crackers, cutting Jos. Clark & H. Henderson Baltimore, Md Sept. 13, 183. Crackers, cutting J. P. Fairlamb & Miller Dunot Baltimore, Md June 13, 183. Crackers, cutting John S. Stiles Baltimore, Md June 13, 183.	Crackers and biscuit, making and			
Crackers, cutting Jos. Clark & H. Henderson Jos. Clark & H. Henderson Baltimore, Md Sept. 13, 183  Crackers, cutting. J. P. Fairlamb & Milground Baltimore, Md June 13, 183  Crackers, cutting. John S. Stiles Baltimore, Md June 13, 183  Wilmington, Del June 13, 183  Aug. 9, 183	baking			
Crackers, cutting	Crackers, cutting		Philadelphia, Pa	MIST. 10, 1530
Crackers, cutting Jos. Clark & H. Henderson			Dalaimana MA	Sant 12 1020
Crackers, cutting	<b></b>		Daiumore, Md	Sept. 13, 1630
Crackers, cutting	Crackers, cutting		Raltimore Md	Tune 12 1831
ler Dunot Wilmington, Del June 13, 183 Crackers, cutting John S. Stiles Baltimore, Md Aug. 9, 183	Constrain autims			June 10, 1001
Crackers, cutting John S. Stiles Baltimore, Md Aug. 9, 183	Crackers, cutung		Wilmington Del	June 13, 1831
Districts, tutality to the second of the second of the second sec	Crackers outling	John S. Stiles	Baltimore, Md	Aug. 9, 1831
			A Antodered April 10	1841.

* Additional imp., S. H. Allemong, ex'or. April 5, 1838. † Antedated April 12, 1841. †Reissued May 20, 1834. || Reissued Oct. 1, 1830. | §Reissued, Sept. 18, 1833. | T Reissued Sept. 18, 1833.

INVESTIGES OR DESCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Orania and a	G. M. W. J. II	Catalain N V	Man 2 1000
Orackers, cutting	George M. Kendall	Catskill, N. Y	May 3, 1833
Crackers, cutting	Lucius Kirtland	New Haven, Ct	Sept. 4, 1894
Crackers, cutting	Thomas & Thomas H.	Washington D C	Oct. 17, 1835
Crackers autting	Havener	Washington, D. C New York	Oct. 17, 1835
Crackers, cutting	Levin P. Clark	Baltimore, Md	Nov. 7, 1845
Crackers, cutting		Boston, Mass	April 2, 1841
Crackers, cutting	Charles P. Fobes	Baltimore, Md	July 17, 1841
Crackers, cutting	William R. Nevins	New York	Nov. 10, 1841
Crackers, cutting and rolling	Daniel Poole	Philadelphia, Pa	Dec. 24, 1824
Crackers, cutting and rolling	James Cooper		
Crackers, cutting and rolling	W. R. Nivens	New York	Mar. 2, 1836
Cracker machine	W. H. Tuttle, ass'nee		
	of J. Johnson and O.	Boston Moss	May 17 1944
Crackers, making	Humphrey Winslow.	Boston, Mass Swansey, Mass	
Crackers, making		E. Greenwich, R. I.	
Crackers, moulding			
Crackers, ship bread	Nathan Daskam & D.		
	G. Wood	Geneva, N. Y	Aug. 5, 1830
Cradle	Samuel Pope	Windsor, Ct	June 15, 1813
Cradle	Peter Cooper	Hempstead, N. Y	Mar. 27, 1815
Cradle, and chair rockers			Dec. 21, 1819
Cradle, or crib			
Cradle rockers	Henry R. Taylor	Roxbury, Mass	Jan. 10, 1045
Cradle, self-moving	Zech Mills	New York Hartford, Ct	Toly 17 1806
Cradle swing	John McKinney	West Chester, Ohio.	June 13, 1831
Cups and saucers, metallic	John Lave	Baltimore, Md	June 14, 1814
Cups and saucers, metallic Curtains, window and bed	William F. Phyfe	New York	Feb. 19, 1830
Cushion, elastic spring	Sherman Blair	New Haven, Ct	Aug. 1, 1823
Cutting apples	William Kling	New Holland, Pa	April 28, 1818
Cutting apples	A. Glendenning	Loudoun co., Va	Sept. 9, 1823
Cutting apples	Daniel Davis, 2d	Stafford, Ct	
Cutting apples, coring & quartering		Rutland, Vt	
Cutting apples, coring, quartering Cutting apples, and paring		Pennsylvania	
Cutting apples, and paring	Stephen Cruttenden	Guilford, Ct	Ang. 25, 1809
Cutting apples, and paring	R. and A. Mosher	Galway, N. Y	Dec. 28, 1833
Cutting apples, and paring			Dec. 28, 1829
Cutting apples, and paring	John W. Hatcher	Bedford county, Va	Feb. 3, 1836
Cutting apples, and paring	Willard Badger	Boston, Mass	Feb. 16, 1809
Cutting beef	Henry Bangs	New York	April 27, 1831
Cutting blubber*		Fall River, N. Y	Nov. 16, 1841
Cutting cabbages			No. 14 1000
Cutting meet	Dangler	Greenwich, Pa	Nov. 14, 1826
Cutting meat	Benjamin Meeker	Brooklyn N V	July 19, 1811
Cutting meat	John Morris	Derby, Ct	Feb. 25, 1835
Cutting meat.	J. Masser & S. Smith	Megentown, Pa	June 2, 1836
Cutting meat	John Morris	Derby, Ct	Nov. 20, 1837
Cutting meat	Henry Bauss	New York	Dec. 24, 1830
Cutting meat	Benton P. Coston	Philadelphia, Pa	June 13, 1831
Cutting meat	Jos. Buffington	Chester, Pa	July 5, 1833
Cutting meat and other substances	John Morris	Derby, Conn	Feb. 28, 1842
Cutting potatoes	Abel Williams	Asnneid, Mass	Mar. 12, 1839
Cutting sausage meat	David Raissel	Horrichurg Po	Mar. 19, 1811 Oct. 26, 1818
Cutting sausage meat	George B. Craft	Redstone. Pa	Oct. 20, 1819
Cutting sausage meat	Samuel Fahrnev	Washington co Md	Dec. 9, 1828
	The same of the sa	Flizabethtown N I	Jan. 26, 1829
Cutting sausage meat	Elias Wade	THINGUCATO ATT. T	
Cutting sausage meat	Jac. Robinson	Lancaster co., Pa	Feb. 27, 1830
Cutting sausage meat	Jac. Robinson John Brannan	Lancaster co., Pa Baltimore Md	Feb. 27, 1830 Mar. 8, 1832

^{*} Antedated Sept. 20, 1841.



MAY MATTON'S OR DISCOVERISE.			
	PAT <b>ERTEU</b>	3.2020301012.	WHEN YAVED.
Cutting sausage meat	Samuel L. Hoer	Salisbury, Pa	Pet: 1, 1884
Cutting sausage meat	Joseph Wagner	Brunswick tp., Pa	Mar. 19, 188
Cutting sausage meat	L. Bayha and F. Rapp	Wheeling, Va	April 8, 1885
Cutting sausage meat	Jacob Fahrney	Quincy, Pa	Jan. 23, 1834
Cutting sausage meat		Hagerstown, Md	Jun. 23, 188
Cutting sausage meat			Feb. 6, 183
Catting sausage meat	P. Fahrestock and J.	<b>a</b> . <b>b</b>	30 11 2004
4	Moon, jr	Quincy, Pa	Mar. 11, 1885
Cutting sausage meat	A. and J. Keagy	Morrison Cove, Pa.	June 15, 1885
Cutting sausage meat	J. Burns & J. Walter.	Waynesborough, Pa	
Cutting sausage meat	Ambrose Henkel	New Market, Va	Meb. 13, 1886
Cutting sausage meat	William Pittenger	Rome, Ohio	Mar. 26, 1844
Cutting sausage meat	Edwin Clark	Hartford, Ct	Aug. 31, 1844 Feb. 28, 1845
Cutting sausage meat	Geo. A. Coffman	Middlebrook, Va	
Cutting sausage meat and stuffing	Samuel Fahrney	Boonsborough, Md.	
Cutting smoked beef		Cananatar Da	
Cutting soft substances	A. King	Laneaster, Pa Hampton, Ct	May 28, 1879 July 7, 1835
Cutting vegetables	Jonathan Clark Austin H. Robbins	Denmark, N. Y	May 6, 183
Cutting vegetables	Henry Mellish	Walpole, N. H	June 25, 1836
Cutting vegetables	John G. Conger	Rebersburg, Pa	Jan. 27, 1836
Cutting vegetables, beet roots, &c.	Joseph Herd, jr	Boston, Mass	July 26 1836
Cutting vegetables	George J. Neveil	Rising Sun, Pa	Oct. 14, 1840
Cutting vegetables	Henry Hoover, ass'ee	reming out, ruiting	11, 1010
Summing regulation to the time of	of Martin Stoner	Waynesborough; Pa	Oct. 22, 1842
Dough, breaking	Nath. Pettibone	New York	Nov. 16, 1797
Dough, breaking		Hingham, Mass	
Dough, breaking	Cromwell Barnard	Nantucket, Mass	April 17, 1810
Dough, breaking or working!	John W. Post	Bakimore, Md	Mar. 14, 1840
Dough-breaking machine	Luke Shaw	Bath, Maine	May 26, 1843
	Samuel Nixon	Pr. George co., Va	Feb. 26, 1616
Dough, kneading	J. S. Fisher and S. W.		
	Talbot	Dedham, Mass	April 23, 1825
Bough, kneading	N. C. Willett	Jonesborough, Tenn	Dec. 28, 1835
Dough, kneading	Noah Wyeth	Hingham, Mass	May 12, 1834
Dough machine	George Richards	Stonington, Ct	Feb. 14, 1896
Dough machine	D. and T. Shack ford .	Westbrook, Ct	Mar. 2, 1836
Dough, plating & cutting crackers Drawers, improvement in	Oliver Jenkins	New Haven, Ct Boston, Mass	April 13, 1838 June 22, 1842
Elevator for note and bestles	John Edwards	New York	Mar. 19, 1825
Elevator, for pots and kettles Exercise, machines for producing	Oliver Halsted	New York, N. Y	Mar. 13, 1844
Extension tables	Edward Richards	New York, N. Y	April 15, 1843
	Cornelius Briggs	Roxbury, Mass	Sept. 1, 1843
Fan, for bed chambers	James Barron	Norfolk, Va	Nov. 27, 1836
	Edward Marquam	, , , , , , , , , , , , , , , , , , ,	Mar. 28, 1893
Peathers, cleaning.	Daniel K. Hall	New York	Feb. 12, 1836
		New York	
, , , , , , , , , , , , , , , , , , , ,	of R. B. Lewis	Hallowell, Me	June 27, 1846
eathers, cleaning and purifying.	George Reynolds	E. Hartford, Ct	Sept. 11, 1835
eathers, cleaning and purifying .	Samuel G. Ladd	Hallowell, Maine	Sept. 22, 1836
eathers, dressing	Samuel Keplinger	Baltimore, Md	Feb. 12, 1836
reathers, dressing	Elam Wilbur	Geneva, N. Y	Mar. 18, 1836
Peathers, dressing	Billy and Alan. Todd.	Marietta, Ohio	May 6, 1836
Peathers, dressing.	George Reynolds	East Hartford, Ct	May 23, 1836
reathers, dressing	Benton P. Coston	Philadelphia, Pa	June 28, 1836
reathers, dressing	F. P. Knowlon	Clermont, N. H	July 2, 1836
ceathers, dressing and cleaning		New York	Oct. 15, 1825
cathers, dressing and cleaning t.			Feb. 7, 1834
eathers, dressing and cleaning		Otsego, N: Y	April 22, 163
eathers, dressing and cleaning		Readfield, Maine	July 31, 1831
cathers, dressing and purifying .		Schodizek, N. Y	Nov. 23, 1636
eathers, dressing and washing	John W. Howlett	Greensborough, N.C	Oct. 5, 1838
foothers devine white-in-			
Peathers, drying, whipping, and cleaning.	Noth I. Matteile	Roston Mass	Amril 16, 1889

CHANGE SHOULD OF DISCOLUMNISH	PAT <b>ARTENS</b> .	r <i>indanc</i> e.	₩ <b>₩</b> ₩ i#₩D.
Pithheits, retidentor	J.W.Post & R. Collier	Faltimore M.S	Mut. 2, 1636
Frist and regutable preservers	Peter Kephart	Uniontown Md	Sept. 24, 1844
Furniture, house, ship	Edward Clibbon	Cincinnati. O	Sept. 12, 1831
Glinder	E. B. Strong	Buffalo, N. Y	Aug. 27, 1835
Grater, apple	Un Emmons	New York	Feb. 13, 182
Grater, apple	Camm Mobre	Guilford co., N. C.	Dec. 30, 1826
Grater, apple	David Flage, ir.	New York	Dec. 20, 1830
Pretting clothes	Samuel Swett, fr	Readfield, Me	Dec. 30, 1833
Eddles, bent, wood handles	Simeon Stedman	Hartford, Ct	July 25, 1818
Maccaroni, Italian paste	John B. Saltori	Philadelphia, Pa	July 13, 180
Mangle	Isaac Doolittle	Bennington, Vt	Feb: 13, 1833
Map holders, manner of construct-		<b>.</b>	
ing		Little Falls, N. Y	Jan. 24, 1842
Mattresses	Wm. H. Robertson	New London, Ct	Dec. 17, 1840
Mattresses, bolsters		m	
Mattresses, hair	Uram	Troy, N. Y	July 1, 183
Mattresses, palm leaf	Wm. F. Phyfe		Oct. 1, 1830
Mattresses, seamen's bed	Elias Howe	Cambridge, Mass	Sept. 13, 1834
Mattresses, sofas		Boston, Mass	Sept. 17, 1833
Mattresses, spring	Rowland Cromelin	New York	Nov. 7, 1831
Meat catter		Philadelphia, Pa	June 16, 1846
Meat catter	Harry H. Evarts James M. Wilder	Mount Morris, N.Y.	Oct. 12, 1843
Meat cutter	Edward D. Tippett	Peterboro', N. H	May 10, 184
Meat, machine for outting	Abishai Clark	Georgetown, D. C.	Dec. 28, 1846
Milk, prepare for butter & choose	Calvin Ainsworth	Doe Run p. o., Pa Littleton, N. H	May 9, 1846 Nov. 19, 1833
Mop heads	Jacob Howe	Worcester, Mass	June 15, 1837
Mop irons	Salmon Johnson		Oct. 18, 1843
Preserving and holding butcher's	Zamon Comison	Lec, 11. 1	000. 10, 1040
meat, apparatus for	Adam Seltzer	Baltimore, Md	Sept. 5, 1840
Quilting frame	Brook W. Sower	Leesburg, Va	Dec. 23, 183
Quilting frames, couplings in	Joseph W. Webb	Mount Morris, N.Y.	
Refrigerator	Thomas Moore	Maryland	Jan. 27, 1803
Refrigerator	T. W. Bronaugh & J.	,	
· ·	Talbott	Georgetown, D. C	Mar. 16, 1813
Refrigerator	John Warring	Port Tabago, Va	June 12, 1835
Refrigerator	R. D. Burns	Baltimore, Md	Nov. 11, 1837
Refrigerator	Henry V. Hill	Washington, D. C.	May 25, 1836
Refrigerator	John Scott	Philadelphia, Pa	July 10, 1840
Refrigerator	Job S. Gold	Philadelphia, Pa	Mar. 12, 184
Refrigerator	David Evans	Philadelphia, Pa	Mar. 26, 1844
Refrigerators.		New York	June 20, 1845
Refrigerators, for distilleries		Baltimore, Md	Jan. 6, 1820
Sacking bottom	L. L. Wells	Middletown, Ct	April 13, 1830
Sacking bottom, mode of tightening	John R. Simpson	Boston, Mass	Aug. 10, 182
Safes, to protect them from insects	Robert Sanderson	Athens, Ohio	Jan. 10, 1843
Safes for preserving meats	Jake H. Dester	Baltimore, Md	July 16, 1842
Sausages, making	A Glandagning	Fayette, Missouri	Oct. 12, 1849
Sausages, making	G. D. Menatus	Loudoun county, Va.	Sept. 9, 1824
Sausages, staffing.	Samuel Fahrman	Pittsburg, Pa	Aug. 29, 1839 Feb. 16, 1830
Scrubbing floors.	Simon P Willard	Washington co., Md. Bloomfield, N. Y	Nov. 17, 180
Scrubbing floors. Scrubbing machine	Thomas Pichar	Greenfield, Ohio	Dec. 26, 183
Sink, cast iron	Zene A Lavi & Torhov	Delaware co., N. Y	Aug. 6, 183
Sitte, moverble	Peter Karthelenty	New York	Dec. 2, 192
30fa, adapted to invalids.	Martin Engel	Entron Pa	May 12, 184
Sofa and bedisteads	John R. Penniman	Roston Mass	Ang. 99 180
Solar charle, springs 1011	Edward Cheminoton	Postori White	Nov. 23. 182
Sold ciasus splans.	Sherman Blair	New Haven Ct	Feb. 9. 1909
7-A 19-Y		New Vet	Tuna 05 100
som, or shaling joint settee	Isalah Jennmes		Julie 23. Ide
Spittoon, design for	Henry Bigging	New York. N. Y	Mar. 14. 184
3oft, or shifting joint settee	Henry Biggins H. L. B. Lewis	New York, N. Y New York	Mar. 14, 1846 Sept. 27, 1846

^{*} English patent dated Jan. 2, 1846.

[†] Additional improvement Nov. 23, 1836.

Inventions or discovering.	PATRICAM.	rampinor.	when mayed.
Tables, manufacturing	Sullivan Snow	Saco, Maine	Mar. 2, 1816
Tables, manufacturing Teapots and other vessels of Bri-	Peter Barker	Worthington, Ohio	Aug. 6, 1888
_ tannia ware	W. W. Crossman	Taunton, Mass	
Teakettle Vase, ornamented, design for	Ezra Ripley John Bt. Clute	Troy, N. Y Schenectady, N. Y	Mar. 14, 1846 July 25, 1846
Vase, ornamental, design for	Wm. and R. P. Resor.	Cincinnati, Ohio	Oct. 10, 1846
Vegetable cutters	Joseph W. Webb Marcellus Sands	Mount Morris, N.Y. Franklin, N. Y	April 10, 1843 Feb. 12, 1842
Washing clothes, rotary pounder			
for	Christopher Aumock. Moses Chase	Elbridge, N. Y Baltimore, Md	
Washing machine	Nathaniel Briggs	New Hampshire	Mar. 28, 1797
Washing machine	Ezra Welds Ezra Welds	Massachusetts	Sept. 17, 1799
Washing machine	Samuel S. Dean	New York	Feb. 29, 1804
Washing machine	Abraham Higham Wm.J. Fulsom & John	Hudson, N. Y	May 4, 1805
	Hayden	Hallowell, Me	Dec. 17, 1805
Washing machine	Reuben Buck Richard R. Elliott	Washington, N. Y Watertown, Mass	Feb. 28, 1806
Washing machine	Simeon Willard, jr	Hudson, N. Y	April 25, 1807
Washing machine	Josiah Cleaveland	Franklin, co., Pa Alfred, Mass	June 6, 1807 July 24, 1807
Washing machine	M. Lee and T. Barber	Uneida, co., N. Y	Oct. 1, 1807
Washing machine	Wm. Wadsworth Leonard Kennedy	Hartford, Ct Hartford, Ct	Mar. 15, 1808
Washing machine	Elam King	Johnstown, N. Y	May 14, 1808
Washing machine	Martin Lee Edward Jones	New York	June 4, 1808
Washing machine	Asahel E. Payne	Delhi, N. Y	July 1, 1808
Washing machine	Enos Prescott Theron Henry	N. Marlbor'h, Mass. Bloomfield, N. Y	July 11, 1808 July 11, 1808
Washing machine	Thomas Osgood	Charlestown, Mass.	July 11, 1808
Washing machine	Eben Lister	Killingworth, Ct	July 11, 1808
	lington	Springfield, N. Y	
Washing machine	Stephen W. Dana   Septimus Tucker	Rutland, Va Dublin, Pa	Aug. 30, 1808
washing machine	Eli F. Hill	Fabius, N. Y	Feb. 11, 1809
Washing machine	Aziel Blodget Joseph Yarwood	Amherst, N. H New Brunswick, N.J.	Feb. 16, 1809 Mar. 11, 1809
washing machine	Levi Anderson	Bristol, Pa	Mar. 23, 1809
Washing machine	William Buckman Garry Bishop	Annapolis, Md	Mar. 23, 1809 April 17, 1809
washing machine	Lemuel Bachelor	Madison, N. Y Vernon, N. Y	April 24, 1809
Washing machine	Orin Chatfield Nich. Van Zandt	Burlington, N. Y Washington, D. C	May 15, 1809
Washing machine	Martin Lee	Burlington, N. Y	June 8, 1809
Washing machine	Isaiah Jennings Thomas Pierce	New York	June 13, 1809
Washing machine	Timothy Freeman	Fishkill, N. Y Madison co., N. Y	June 30, 1809
Washing machine	Shubael Kimball Rosel Phillips	Rhinebeck, N. Y	Aug. 12, 1809
wasning machine	Robert Robinson	Rhinebeck, N. Y Otsego county. N. Y. Leesburg, Va. Hoosick, N. Y	Nov. 3, 1809
Washing machine	Sylvester Noble William Jackman	Hoosick, N. Y Painsville, Ohio	Feb. 1, 1810 Oct. 8, 1810
wasning machine	Daniel Robinson	Franklin, N. Y	Dec. 15, 1810
Washing machine	David Dungan	Upperville, Va	May 23, 1811
wasning machine	Jos. Palmer	Brookfield, N. Y	Aug. 21, 1812
Washing machine	William Stanton Jos. Palmer Erastus Dennison John F. Whipple	New Lisbon, N. Y	Dec. 30, 1812
Washing machine	A unbhig.	Eastell, 14. L.	. Julie 10, 1010

^{*} Antedated February 7, 1842.

INTENTIONS OR DISCOTERIES.	PATENTENA.	READANCE.	WHAN MAURD.
Washing machine	Silas Hitchcock	Vernen, N. Y Eaton, N. Y	June 25, 1913
Washing machine	John Gray		Feb. 4, 1844
Washing machine	Eliphalet Jacques, jun.		
Washing machine	Joshua Lane Christian Seebold	Homer, N. Y New Berlin, Pa	
Washing machine	James Burnett		
Washing machine	Beardsly Hendryx		
Washing machine	Benjamin Cox		
Washing machine	James Barron	Norfolk, Va	Dec. 7, 1821
Washing machine	Pascal Cady	Brooklyn, Ct	Jan. 17, 1882
Washing machine	F. Goucher	Philadelphia, Pa	
Washing machine	David Watson Isaac Leavitt	Fayette, Me Tarner, Me	
Washing machine		Butler county. Pa	Sept. 25, 1823
Washing machine	William Cahoon	Butler county, Pa Winfield, N. Y	June 15, 1824
Washing machine		Butternuts, N. Y	June 24, 1864
Washing machine	Andrew Glendenning.	Loudoun co., Va	Sept. 9, 1824
Washing machine	John West	Middletown, Ct Vergennes, Vt	Dec. 14, 1824
Washing machine	Reuben Wheeler	Vergennes, Vt	Feb. 26, 1825
Washing machine	Moses J. Clark	Auburn, N. Y	
Washing machine	Sherburn Bostwick Oliver Deane	Thompson, Ohio Walpole, Mass	Dec. 8, 1825 Jan. 11, 1826
Washing machine	Willard Foster	Oswego, N.Y	Jan. 25, 1826
Washing machine	Edward Thurston	Burlington, Vt	
Washing machine	Richard V. Mudge	Durham, N. Y	April 12, 1826
Washing machine	John G. Philip	Kinderhook, N. Y	April 12, 1826
Washing machine	S. Church and H. Clark	Utica, N. Y	July 6, 1826
Washing machine	Burroughs Beach	New Milford, Conn.	Nov. 24, 1826
Washing machine	David G. Dunham	NewBrunswick, N.J.	Dec. 7, 1826
Washing machine	Chester Stone  David Beard	Middlebury, Conn Buffalo, N. Y	Feb. 17, 1827 June 27, 1827
Washing machine	Moses Cass	Caroline, N. Y	Aug. 29, 1827
Washing machine	Franklin Kelsey	Middletown, Conn	Sept. 28, 1827
Washing machine	Aaron Bull	Caroline, N. Y	Mar. 28, 1828
Washing machine	Eli W. Gibbs	Chenango co., N. Y.	May 1, 1828
Washing machine	Moses P. Parker	Lawville, IV. I	May 1, 1828
Washing machine	George Hancock	Maysville, Ky	May 24, 1828
Washing machine	Simon Willard, Jr John R. Davis	Cincinnati, Ohio Hartland, N. Y	Aug. 2, 1828 Sept. 2, 1828
Washing machine	Joseph & R. Hathaway	Pultney, N. Y	Sept. 5, 1828
Washing machine	Eben Blodget	Watervieit, N. Y	Dec. 10, 1828
Washing machine	Samuel A. Bronson	Montrose, Pa	Dec. 26, 1828
Washing machine	Reuben Mosher	Galway, N. Y	Jan. 8, 1829
Washing machine	Amos Larcum	Watervieit, N. Y	Jan. 16, 1829
Washing machine	John Taylor	Dunstable, N. H	April 1, 1829
Washing machine	Stephen Hinds Ephraim Wheeler	Montrose, Pa	April 25, 1829
Washing machine	Wm. E. Arnold	Galway, N. Y Haddam, Ct	June 11, 1829 Aug. 3, 1829
Washing machine	George A. Stocking	Aurelius, N. Y	Sept. 10, 1829
Washing machine	Pinkham Mosher	Ballstown Spa, N.Y.	Oct. 10, 1829
Washing machine	H. Shively, R. S. Mc-	-	•
	Ewen, & J. Lindsey	Fredericksburg, Ohio	Oct. 21, 1829
Washing machine	Eleazer Berry	New York	Nov. 12, 1829
Washing machine	Charles D. Wright	East Haddam, Ct	Nov. 19, 1539
Washing machine	Roswell Brainerd J. T. W. Dennis	Haddam, Ct Paintville, Ohio	Nov. 23, 1829 Dec. 16, 1829
Washing machine		Haddam, Ct	Jan. 11, 1830
Washing machine		Union, Va	Feb. 27, 1830
Washing machine		Painted Post, N. Y.	April 22, 1830
Washing machine	Richard P. Clarke	Broad Albin, N. Y	April 16, 1830
Washing machine	Jas. M. Gates	Norwich, Ct	May 21, 1830
	Andrew Kirkpatrick.	Urbanna, Ohio	May 21, 1830
	Enoch Walker		May 29, 1830
Washing machine	Stephen Hinds	MUHUUSC, Fa	may 63, 1000

INVENTIONS OR DISCOVERIES:	PATENTÉES.	rkinėncė.	WHEN HEUED.
Washing machine	Robert C. Arnold	New Haven, Ct	June 15 183
Washing machine	Eben. Horton	Avon, Mass	June 17, 183
Washing machine	Daniel Stocking	Scott county, N. Y.	June 25, 183
Washing machine	John Freeman	Scott county, N. Y Senate, N. Y	Oct. 14, 183
Washing machine	W. H. Brainerd and		
W/anhlua machina	C. B. Bulkley	Chatham, Conn	Oct. 16, 183
Washing machine	Gideon Lowell	Nunda, N. Y	Nov. 6, 183
Washing machine	Amos T. Tenney	N. Woodstock, N. Y.	Nov. 23, 183
Washing machine	Alvan Foote	Granville, Ohio	Dec. 7, 183
Washing machine	Samuel Bushnell, 2d	Killingworth, Conn Saybrook, Conn	Dec. 20, 183 Dec. 20, 183
Washing machine	Benjamin Hinkley		Jan. 31, 183
Washing machine	M. D. Mulford	Fayette, Maine Bloomfield, N. Y	
Washing machine	John Hall	Hollis, N. H	April 5, 183 April 20, 183
Washing machine	John G. Conser	Miles township, Pa.	April 21, 183
Washing machine	Samuel G. Jinkham	Enfield, Mass	June 13, 193
Washing machine	James Appleton	Richmond, Va	June 13, 183
Washing machine	Nathan Hackett	Snow Hill, Ohio	Aug. 6, 183
Washing machine			Aug. 19, 183
Washing machine		N. Petersburg, Ohio.	Aug. 19, 183
Washing machine	Jesse Barber	Sweden, N. Y	Aug. 30, 183
Washing machine	Willson Gregory	Richmond, Va	Sept. 9, 183
Washing machine	Miles B. Hand	Lockport, N. Y	Dec. 14, 183
Washing machine	David Watson	Fayette, Maine	Dec. 23, 183
Washing machine	Sylvanus Hathaway	Massilon, Ohio	Feb. 13, 183
Washing machine	Wm. McAll, H. H.	,	
•	Higgins, and R. G.	A	
Washing mashing	Rogers	Athens, Ala	Feb. 15, 183
Washing machine	D. G. Willson	Machias, Maine	April 6, 183
Washing machine	Simeon Savage	E. Machias, Maine.	April 11, 183
Washing machine	Sylvanus Minton	Pendleton, S. C	April 14, 183
Washing machine	Benton P. Coston John S. and Ebenezer	Philadelphia, Pa	April 27, 183
	Pulsifer	Ipswich, Mass	May 21, 183
Washing machine	Ezra Fisk	Fayette, Maine	May 25, 183
Washing machine	Ebenezer Mayo	Hallowell, Maine	May 26, 183
Washing machine	Ira Avery	Springfield, Pa	June 22, 183
Washing machine	Nathan Howe and		
Washing mashing	James McCollum	N. Petersburg, Ohio.	June 30, 183
Washing machine	Isaac S. Wright	Weedsport, N.Y	July 18, 183
Washing machine	Watson W. Woodburn	Greensburg, N. C.	July 18, 183
Washing machine	William H. Cumming	Guilford co., N. C.	Nov. 3, 183
Washing machine	Eli Nickolls Jacob Lindsey	Union Caship, Ohio.	Nov. 24, 183
Washing machine	Eaton Wilker	Canajoharie, N. Y.	Dec. 28, 183
Washing machine	Larkin Smith	Sullivan, N.Y Guilford co., N. C	Jan. 11, 183 April 25, 183
Washing machine	James B. Dunkin	Union, Va	
Washing machine	Benjamin Hinkley	Faycue, Maine	May 15, 183 July 23, 183
washing machine	George W Willean	Dunstable, N. H	Aug 7, 183
Washing machine	Samuel Swett in	Readfield, Maine	Sept. 18, 183
Washing machine	Andrew Glendenning	Frankfort, Ind	Nov. 19, 183
Washing machine	W. Miller & F. Rogers	Connersville, Ind	Jan. 17, 183
Washing machine	Uriah L. Clarke	Manor township; Pa.	
Washing machine	Johathan Chase	Waterborough, Me.	June 23 193
			July 14, 183
Washing machine	A videbi R Gaton	Connamella Maina	A 1 102
Washing machine	John D. Gwinn	Washington co Te.	Oct. 3 183
Washing machine	Alanson D. Lord	Bethany, N. Y.	Nov. 24. 183
Washing machine Washing machine Washing machine Washing machine	William C. Kniffen	Alexander. N. Y.	Dec. 17, 183
AA CODITINE HIGGINICO O O O O O O O O O O O O O O O O O O	' DIJJIIMAN KANAPIIG '	PAPELBRA INTENSA	lon IK IXX
Washing machine	Amos C. Haniford	Northfield N H	Feb 6 183
AA COUNTY LUCCULUIC	Stennen A. Mictienroe	Alexander, N. Y	Mar. 24, 183
Washing machine.	Ezra Whitman, jr., as-		•
•	si'ee of Ezra Whitman	Winthrop Maine	Mar. 27, 183

Britanische or discolabités	PATRICIANO,	PRINCE.	W SAN MARKE
Mashing machine	John Spyder, jr	New York	May 2, 19
Vashing machine		Litchfield, Conn	May 2, 15
Vashing machine			May 9, 12
Vashing machine	John T. Denniston	Alexander, N. Y	May 22, 18
Vashing machine	A. W. Soule	Portland, Maine	July 18, 18
Vashing machine	David Warren	Winthrop, Maine	Aug. 27, 18
Vashing machine	. Wm, and J. D. Collins	Norwich, Conn	Aug. 27, 181
Yashing machine	James Lombard	Readfield, Maine	Sept. 9, 189
Vashing machine			Sept. 26, 189
Vashing machine	John Q. Geer	Norwich, Conn	Oct. 10, 18
Vashing machine	Henry Auli	Philadelphia, Pa	Oct. 14, 18
Vashing machine	Isaac Spicer	Norwich, Conn	Oct. 17, 18
Vashing machine	Jose H. Hubbard	Bloomfield, Conn	Jan. 6, 181
Vashing machine	Lither Dayle	Norwich, Conn	Feb 12, 18
Vashing machine	Allian D. Amald	Dordfold Mains	Mar. 2, 181
Vashing machine	E V Water	Albana N. V	Mar. 12, 181
Vashing machine	Charles Marriman	Middletown Conn	Mar. 23, 18
Vashing machine	Henry Souder	Strasburg, Pa	April 21, 18
Vashing machine			April 21, 18 May 14, 18
Vashing machine	Amory Devideon	Littleton, Mass	June 11 18
Vashing machine	Amos Larcum	Troy, N. Y	
Vashing machine	William Newton	Warren county, Ohio	July 1. 18
Vashing machine	James H. Little	Skaneateles, N. Y	July 2, 18
Vashing machine	William Hovey	Worcester, Mass	Feb. 4, 18
Vashing machine,	Robert W. Oliphant	N'th Granville, N. Y.	June 7, 18
Vashing machine			
Vashing machine	Samuel Swett, jr		
Vashing machine			
	Gilmore, and William		
Bir alatin a mark t	Sturtevant	Turner, Maine	Aug. 9, 18
Vashing machine	Sewall Benson	Waterville, Maine	
Washing machine	George Waterman	Johnston, R. I Norwich, N. Y	May 11, 18 June 22, 18
Vashing machine	Horatio N. Walter Leonard Procter	New York.	
Vashing machine	Frederick Fentriss		
Vashing machine*	John Shugert	Elizabeth, Pa	
Vashing machine		Penfield, N. Y	
Vashing machine	James Hutchinson	Martinsburg, Va	Oct. 28, 18
Vashing machine			Nov. 6, 18
Vashing machine	James B. Coffin	Big Prairie, Ohio	Feb. 2, 18
Vashing machine	Ephraim Lukens	Baltimore, Md	Mar. 9, 18
Vashing machine		Medford, N. J	April 4, 18
Yashing machine	William Newbrough		
Vashing machine	William Soule		May 17, 18
Vashing machine	Oliver B. Wight		July 9, 18
Vashing machine	. William E. Arpeld	Rochester, N. Y	
Vashing machine	David Kaufman		
Vashing machine	Nathan Parish	Rush, N. Y.	Dec. 4, 18 July 5, 18
Vashing machine	Harrison Hagans	Brandonsville, Va	Ang 96 18
Vashing machineVashing machine	Honetic Hoskins	Scinic N V	Ang. 96, 18
Vashing machine	Grey Utley	Chapel Hill, N. C	Nev. 26, 18
Yashing machine			Jan. 28, 18
Yashing machine	Aldrich & Foote		
Fashing machine			
Vashing machine			Qet. 7, 18
Vashing machine	Ira Avery	Tunkhannock, Pa	Nov. 12, 18
Vashing machine	Edwin D. Wilson	Phillippa, Pa	Dec. 15, 18
Vashing machine	.  Edward D. Tippett	Georgetown, D. C	Dec. 17, 18
Vashing machine and clothes pres	Jonathan Read	New York	April 10, 18
Vashing machine, and churn Vashing machine, and churn	Thomas Beatty	Hudson, N. Y	April 25, 18
Vashing machine, and churn	Stephen Winchester	Newtown, Conn	Aug. 21, 18
Vashing machine, and churn	Harry Righon	L'AZABOVIA N V	Sent. 7. IN

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diventions or discoveries.	PATRMTEES.	rendence.	WHEN 188UED.
Washing machine, and churn	Gardner Osgood	Madison co., N. Y.	June 7, 1809
Washing machine, and churn	Jesse Roberts	Germantown, Pa	April 25, 1810
Washing machine, and churn	Zini Phinney	Cairo, N. Y	June 19, 1812
Washing machine, and churn Washing machine, and churn	Thomas Beatty Rufus R. Palmer	Hudson, N.Y Caroline, N.Y	Mar. 21, 1898
Washing machine, and churn	John Grout	Caroline, N. Y	Oct. 10, 1828
Washing machine, and churn	Freedus Reed	Pike township, Pa Milo, N. Y Le Raysville, N. Y.	June 11, 1829
Washing machine, and churn	Joel B. Pratt	Milo, N. Y	July 14, 1829
Washing machine, and churn	George B. Gibbs	Le Raysville, N. Y.	Oct. 10, 1829
Washing machine, and churn	John White Oliver H. Brooks	South Union, Ky	Mor 11 1822
Washing machine, and churn	Nahum Swett	E. Bethel, Vt Readfield, Maine Readfield, Maine	Dec. 24, 1834
Washing machine, and churn	Mitchell and Fairbanks	Readfield, Maine	May 9, 1835
Washing machine, and churning.	Harvey W. Sabine	Knanvilla N. Y	AUF. 10. 1040
Washing machine, and drying	Thomas Pearce	Hartwick, N. Y	Dec. 29, 1832
Washing machine, and fulling	Bohan Dewey	Milton t'nship, Ohio	Nov. 19, 1833
Washing machine, and fulling Washing machine, and grinding	Orin D. Wade James Justin	China, N. Y Pittsburg, Pa	April 19 1892
Washing machine, and heating	Samos Justin	riusbuig, ra	
water Washing machine, and heating	Enos D. Cherry	Auburn, N. Y	Sept. 10, 1829
Water	James Luckey	Troy, N. Y	Nov. 19, 1831
Washing machine, and press	Amos Hosford and E. Kelsey		
Washing machine, and press	Henry Averill	Richland, N. Y	Ang. 14, 1828
Washing machine, and press	John Newhall	Dayton, Ohio	June 13, 1831
Washing machine, revolving	Philip Honney	Randelph co., N. C.	April 21, 1834
Washing machine, rotary	Calvin Post	Dayton, Ohio Randelph co., N. C. Springport, N. Y	July 15, 1828
Washing machine, and scouring.	Isaac Loofborrow	New York	June 20, 1010
Washing machine, and scouring Washing machine, and scouring	John Goulding N. Morrison and John	Dedham, Mass	
Washing mashing and securing	Lewis	Uniontown, Pa	Mar. 14, 1833
Washing machine, and scouring Washing machine, steam	James Trueman	Guilford co., N. C Philadelphia, Pa	Aug. 21, 1812
Washing machine, steam	Junius Smith		
Washing machine, steam	William Burton, jr	Aimesville, N. Y	Aug. 16, 1826
Washing machine, steam	L. Barney and A. A.	Groton, N. Y	
Washing machine, steam, revolving washer	James Barnes		
Washing machine, and shelling		Kingston, Pa	Oct. 14, 1650
corn	Benjamin Rice	Denmark, N. Y	Nov. 23, 1827
Washing machine, vibrating	Samuel Silliman	Saybrook, Conn	
Washstand	John Williams	Baltimore, Md	Mar. 15, 1828
Washstand	Ezra Ripley	Schenectady, N. Y.	Dec. 27, 1833
Watercloset, portable	Edward Robinson James Stone	New York	Nov. 9, 1833
Water guard, for doors	John Burt, jr	Tiverton R I	Ten 94 1834
Water guard, for doors	Dan. Bulkley	Hampton, Conn	June 14, 1834
Water, pressing from clothes	David Angevine	City of New York	Feb. 25, 1836
Window, cleaning	Thomas Bruff	Washington, D. C	July 24, 1807
Window curtain, screws, and key Window curtain, and bed	Samuel Abbott and J.	New York	Mar. 6, 1892
SET: 1 1	Prentis	Chester, Mass	Aug. 23, 1825
Window shades	Rufus Conant	Lyme, N. H	Sept. 9, 1825
Window shades, &c., rolling up	Seth Luther	Boston, Mass	July 17, 1835
Writing deak	John White	Marshall, Mich	Nov. 1, 1845

^{*}Antedated July 18, 1845.

#### CLASS No. XVIII.

# ARTS, POLITE,

FINE, AND ORNAMENTAL,

Including Music, Painting, Sculpture, Engraving, Books, Paper, Printing, Binding, Jewelry, &c.

CLASS XVIII.—ARTS, POLITE, FINE, AND ORNAMENTAL, including Music, Painting, Sculpture, Engraving, Books, Paper, Printing, Binding, Jewelry, &c.

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INVENTIONS OR DISCOVERIES.	Patentees.	RESIDENCE.	WHEN ISSUED.
Accordeons, tuning reeds of	M. & Nicklaus Schnei-		
Accorded to the following rocks of the follow	der	New Orleans, La	Sept. 27, 1845
Armlets	Edward West	Kentucky	May 19, 1800
Ball stocks, printers'	John Babcock	New Haven, Ct	Mar. 18, 1818
Bank notes	George Murray	Philadelphia, Pa	Mar. 23, 1822
Bank notes	James Puglia	Philadelphia, Pa	Aug. 13, 1822
Bank notes, preventing counterfeits	Francis Peabody and	•	A
D''' 6 1''	Joseph Dixon	Salem, Mass	April 20, 1832
Bills of credit	John Golder	Philadelphia, Pa	Sept. 26, 1835 June 19, 1835
Bills of exchange	Charles C. Wright	New York	Dec. 26, 1837
Binder, for newspapers	Ezra Ripley	Troy, N. Y New York	Dec. 12, 1820
Binding, ornamental and raised	D. K. Vanreckton David H. Mason and	Mem I otk	Dec. 12, 1020
Biting figures on steel cylinders, for printing calico.	M. H. Baldwin	Philadelphia, Pa	Oct. 30, 1827
Block letters, making	Lewis Katen	New York, N. Y	Sept. 20, 1844
Blocks, for printing colors on silk.	John Crabtree	New York	Dec. 7, 1837
Block printing on woven fabrics of	John Clabacc	Avew Political	
cotton*	Robert Hampson	Manchester, Gr. Brit	June 7, 1841
Blocks, stereotype	Bradbury Haskett	Boston, Mass	May 21, 1832
Blocks, stereotype	Samuel Sawyer	Boston, Mass	May 28, 1832
Blocks, stereotype	Enoch Hale	Boston, Mass	Feb. 15, 1833
Blocks, stereotype, extendible	Elihu White, assignee	New York	Jan. 7, 1831
Blocks, stereotype, fastening, cam	of G. W. Grater	INEM TOTA	Juii. 1, 2002
and spring	Abel Chandler	Concord, Mass	July 13, 1832
Blocks, stereotype plates	Bradbury Haskett	Boston, Mass	Mar. 8, 1831
Blocks, stereotype, used in printing		New York	Jan. 20, 1819
Blocks, stereotype, used in printing	Samuel G. Goodrich	Boston, Mass	Oct. 11, 1828
Books, backing, machine for	William Laighton	Portsmouth, N. H	Jan. 10, 1845
Books, binders' boards, cutting	Geo. S. Scofield	Philadelphia, Pa	June 16, 1846
Bookbinder's press	John J. Wells	Hartford, Ct	Mar. 23, 1824
Book-binding	John T. Sutherland	Philadelphia, Pa	July 27, 1812
Book-binding	John Meer	Philadelphia, Pa	Aug. 26, 1818
Book-binding	Jesse Torrey	Germantown, Pa	Aug. 8, 1829
Book-binding	Wm. Hancock	Great Britain	Oct. 28, 1837
Book-binding, extra, moveable	D. L D. 07	Dhiladalahia Da	Sept. 14, 1812
case for	Robert De Silver	Philadelphia, Pa	Aug. 1, 1838
Books cutting	David Felt	New York, N. Y	Jan. 6, 1832
Books, cutting	Archibald O. Douglass		Mar. 6, 1835
Brushes, for blending colors Bugle, kent	George M. Morris Richard Willis	Philadelphia, Pa West Point, N. Y	Nov. 10, 1827
Bugles, keyed, of turtle shell	George W. Shaw	Thompson, Conn	Aug. 4, 1845
Bust of hon. J. C. Calhoun, design		Charleston, S. C	Oct. 7, 1845
Bust of Robert Burns, design	J. C. King	Boston, Mass	Jan. 31, 1844
Calendars	John O. Hara, ass'nee		
	of John L. Dagg	Philadelphia, Pa	May 4, 1830
Cards, machine for dealing	Robert Bailey	Washington, D. C	May 15, 1812
Chains, watch	Samuel Keplinger	Baltimore, Md	May 4, 1820
Chains, watch	John Hatch	Baltimore, Md	June 5, 1820
Checks, blanks for	James Atwater	New Haven, Ct	Jan. 21, 1829
Checks, blanks for	James Atwater and N.	New Haven, Ct	June 11, 1829
21	* Antedated June		10000 20, 2000
ΆI	II MOUNTE CAL FAIRO	-,	

inventions or discoveries.  Checks, blanks for	PATRNTERS.	residence.	WERN MOULD.
	James Atwater	New Haven, Ct	Aug. 18, 1889
Checks, preventing forgeries	John D. Pope	Baltimore, Md	Mar. 8, 1834
Child's whistle, design	Henry Dubosq	Philadelphia, Penn	May 6, 1844
Coloring maps, process	Lucius Stebbins	Hartford, Conn	July 11, 1997
Colors, imprinting		Philadelphia, Pa	Jan. 24, 1917
Coloring maps, mode of *	Lucius Stebbins	Hartford, Ct	Mar. 12, 1840
Copy books, method of binding	William Davison	Baltimore, Md	Oct. 9, 1841
Copying machine	Cephas Thompson	Bristol, R. I	Feb. 5, 1806
Counterfeit figure, lathe to prevent Counterfeit, mode of engraving to	David H. Mason	Philadelphia, Pa	June 7, 1832
prevent	George Murray	Philadelphia, Pa	
Counterfeit, mode of preventing	Jac. Perkins	Boston, Mass	June 16, 1810
Counterfeit notes, detecting	Jac. Perkins	Massachusetts	
Counterfeit notes, protecting	Eleazer Watson	Albany, N. Y	
Counterfeit preventing	John Kneass		April 28, 1815
Counterfeit, preventing	Abel Brewster	Hartford, Ct	July 15, 1816
Counterfeit, preventing	Richard Wilcox	New York	
Counterfeit, preventing	Nathaniel Sylvester	New York	July 12, 1824
Cutting press, bookbinder's	Chas. Stimpson, jr	Boston, Mass	
Cutting press, for paper	Benj. Morris	Oxford, N. Y	
Daguerreotype impressions, mode		,	
of fixing. Daguerreotype miniatures,improv-	Lemuel Morse	Lowell, Mass	
ed method of finishing	William A. Pratt	Alexandria, D. C	Mar. 14, 1846
Daguerreotype pictures, coloring .	John Plumbe, jr. ass'e		
_	of Daniel Davis, jr	Boston, Mass	Oct. 22, 1842
Daguerreotype pictures, coloring.	Montgo'ry P. Simons, assignee of Warren	•	
D	Thompson	Philadelphia, Pa	MIN 12, 1045
Daguerreotype pictures, improve-			
ment in coloring.	signee of J. B. Isen-		T 00 1040
<b>.</b>	ring, Switzerland	Philadelphia, Pa	Jan. 30, 1846
Daguerrectype plates, coloring	Fred. Langenheim	Philadelphia, Pa	Jan. 30, 1846
Delineator, for fac similes	Jonas Wickes	New York	Sept. 9, 1825
Diamonds, setting	John Dickinson	Philadelphia, Pa	Nov. 30, 1832
Dies, improvement on Perkin s	Jac. Perkins and G.	Newburyport, Mass.	
	Murray	& Philadelphia, Pa.	June 25, 1813
Dies, substitute for etching	Abel Brewster	Frankfort, Pa	July 15, 1813
Divitials, and preventing forgeries	C. S. Rafinesque	Lexington, Ky	Aug. 23, 1825
Drawing, instruments for	Erastus W. Ellsworth		
Drawings, machine for making		•	•
perspective	Richard Lyons	New Rumley. Ohio .	June 14, 1834
Drawing, mechanical, perspective.		Albany, N. Y	April 30, 1813
Engraving	Isaac Hutton and G.	,	p oo,
	Fairman	New York	Jan. 8, 1802
Engraving, machine for	Ethan Allen	Grafton, Mass	Jan. 16, 1843
Engraving and printing, metallic	Edital Zilen	Grandi, Mass	Jun. 10, 1010
	David II Massa	Philadelphia Da	Mar 17 1000
plates	David H. Mason	Philadelphia, Pa	May 17, 1822
Etching end pieces of bank notes.	Henry Tanner	Philadelphia, Pa	July 1, 1815
Files, for papers	Samuel Angell	Providence, R. I	April 22, 1834
Files for filing papers, screw-nuts		DI. 1 3-1-1 - D-	T.1. 0 1040
applied	William Mann	Philadelphia, Pa	July 3, 1840
pamphlets	Isaac Detterer	Philadelphia, Pa	May 22, 1841
Flute, German		New York	June 6, 1814
Gilding, silvering, in dead colors		Boston, Mass	Mar. 21, 1843
Glass frames for pictures	John Scott	rniladelphia, Pa	April 6, 1831
Globe, for teaching geography	Elizabeth Oram	New York	Jan. 12, 1831
Grammar, teaching	John Lamb	Hilledele N. Y	Inly 29, 1820
Grammatical key	James Brown	Newark, N. J	Nov. 3, 1817
~		C	RE- 17 1010
Grammatical mirror	Cyrus Durand	Springneia, N. J	Mar. 11, 1019
Grammatical mirror	George Richards	Birmingham, Engl'd	May 17, 1838
Grammatical key. Grammatical mirror Gilding copper, brass. Guitar Harmonicon.	George Richards E. N. Sherr	Birmingham, Engl'd Philadelphia, Pa	May 17, 1838 Oct. 6, 1831

^{*} Additional improvement, Sept. 4, 1840, and June 16, 1846.

envincetons or distorration.	PA <b>TENTES</b> S.	rbeidence.	WHEN MINES.
Impressions upon metals	L. C. Ives, assignee of	Bristol, Ct., and New	
•	Waterm'n L.Ormsby	York	Feb. 24, 1842
Ink, applying to types	John Prince	Philadelphia, Pa	Nov. 19, 1833
Ink, coloring matter	James Rennie	Lodi, N. Y	June 9, 1834
Ink, distributer	James Rennie John Prince	New York	Dec. 3, 1829
Ink, distributer, self-operating			Jan. 9, 1835
Ink, distributing cylinder, for cop-	•		·
per plates			April 17, 1810
Ink, distributing on types, roller for	Hugh Maxwell	Lancaster, Pa	Dec. 26, 1817
Ink holder	Dan'l Harrington	Philadelphia, Pa	April 22, 1831
Inkstand	Ohver Barber	Hartford, Ct	May 13, 1813
Inkstand	Anson Hawood	Easton, Mass	Nov. 23, 1818
Inkstand	Ezra Southworth	Saybrook, Ct	June 29, 1833
Inketand*	Ezra Southworth George Burnham	Philadelphia, Pa	Dec. 30, 1841
Inkstand	A. T. Arrowsmith, as-		3.5 00 1045
Tulantand	signee of W. Hunt.	New York	May 29, 1845
Inkstand	A. T. Arrowsmith, as-	Nam Vonk	On 7 1945
Inkatand		New York	Oct. 7, 1845
Inkstand	Geo. Arrowsmith, as-	Now Vonk	Dec 11 1046
Talantan 34		New York	
Inkstand Conillows with	Daniel Harrington	Philadelphia, Pa	1104. 0, 1043
Inkstand, Capillary wick			Tom 20 1041
Internal manufacture of	ee of John Farley	Washington, D. C.	Jan. 30, 1841
Inkstands, manufacture of		Springheid, Mass	Feb. 21, 1842
Inkstand, stone	Abm. H. Quincy	Doston, Mass	Sept. 3, 1832
Ink, supplying to the pens of paper ruling machines		Norwich, Ct	Aug. 31, 1839
Inking apparatus, gravitating		Washington D C	Oct 20, 1829
Inking apparatus, of Neel's print-		washington, D. O.	
ing presa		New York	Nov. 4, 1830
Inking distributer			
Inking distributer, self-movingt.		New York	April 23, 1830
Inking form of types	Samuel Fairland	Philadelphia, Pa	Oct. 25, 1830
Inking ivory, machine for	Samuel Fairland L. Pratt & F. Bush	Meriden, Ct	Aug. 28, 1821
Inking machine, self, for hand		•	
printing press	William J. Spence	New York	April 30, 1834
Inking machine, for inking types			
	John Gilpin	New York	Mar. 27, 1835
Inking rollers	Richard M. Hoe	New York, N. Y	April 17, 1844
Inking rollers, temperature of	Eliphaz W. Arnold	Boston, Mass	Sept. 21, 1837
Inking type, machine for	Frederick J. Austin Charles Varle	New York	Feb. 20, 1841
Instructer, self	Charles Varie	Baltimore, Md	May 20, 1830
Keys, for musical instruments	Edward C. Riley	New York	Aug. 22, 1833
Keys, watch	Joseph S. Davis	Providence, R. I	Apru 3, 1827
Leaf holders	Joseph Nock	w ashington, D. C.	Aug. 10, 1843
Lektography	James B. Manning		
Letters and figures, metallic	Lewis Child		
Letters, making, shaded	Geo. Bruce	New York	April 4, 1820
Likenesses, concave reflector and	Alamandan S. Walana	Mass Wasta	Mar. 9 1940
plate, taking	Alexander S. Wolcott	Towner City N T	Sept 17 1894
Lithography applied to reprinting		Screen Oily, 14. J	~ope. 11, 1021
Lithography, applied to reprinting	Robert C. Manners	Boston, Mass.	Feb. 15, 1833
Manifold letter writers	Jesse K. Park	New York, N. Y	Nov. 13, 1844
Marking and lettering packages	Wm. Francis & Wm.		,
2	Johnson	Waynesville, N. C.	Oct. 3, 1844
Marble, preparing for painting			Mar. 5, 1804
Medallion bust of Theodore Fre-			
linghuysen§.	signee of S. Ellis	New York	Sept. 27, 1844
Metallic reeds, method of tuning	J. Shaler Ives	New York, N. Y	May 9, 1846
Music	Nicholas A. Lee	New York	June 11, 1818
Music	Moses Elliot	Boscawen, N. H	June 9, 1818
Music, notes	William C. Phillips	Lunenburg, Va	June 15, 1023
Music, teaching	George Geib	New York	Aug. 30, 1819
t Additional improvement. Nov. (		Antad Sant O 1945	

*Additional improvement, Nov. 28, 1849. † Antedated Sept. 9, 1845. ‡ Reissued Nov. 19, 1833. 

# Additional improvement, Oct 19, 1849. 

\$\delta\$ Antedated Aug. 19, 1844.

ententions or discoveries.	PAT <b>MATEM</b> .	reflection.	within south
Music, teaching, " meterome ac-			
centing"	Uri Emmons	New York	April 7, 1831
Musical instruments	John I. Hawkins	Pennsylvania	Oct. 94, 1800
Musical instruments, applying		,	
wind to.	George Grosh	Lancaster, Pa	April 8, 1883
Musical instruments, producing a			
swell	Charles Pommer	Philadelphia, Pa	Aug. 30, 1819
Musical instruments, bellows for.		Buffelo, N. Y	Dec. 28, 1846
Music, writing	Thomas Harrison	Springfield, Ohio	Oct. 26, 1839
Organs	Aaron M. Peasley	Boston, Mass	Nov. 11, 1818
Organs	John Meads	Albany, N. Y	Nev. 25, 1638
Organs, seraphina	Louis Zwahlen	New York	May 5, 1832
Organ, vocal	John W. Campbell	Attica, Indiana	Nov. 26, 1840
Ornamental borders, casting	Jos. S. Lewis	New York	Oct. 8, 1824
Ornamental rolls and stamps, for		2.00 2012	00 0, 1007
bookbinders	David H. Mason	Philadelphia, Pa	Jan. 26, 1826
	· ·		Sept. 22, 1618
Ornamenting columns	Cyrus Durand		Oct. 1, 1830
Ornamenting columns, chairs		Washington, Ohio	1, 1000
Ornamenting, gilding, &c., with	Francis Bailey	Philadelphia, Pa	Oct. 1, 1816
types	Francis Daney	i miaucipaia, ra	Oct. 1, 101 <b>0</b>
Ornamenting the top of iron and	Paulus Hedly	New York	Feb. 21, 1822
other railing		Dhiledelphie De	May 00 1996
Ornamenting walls and ceilings	William West	Philadelphia, Pa Schuylkill co., Pa	Tune 12 1824
Ornaments from anthracite coal.		Schuyikii co., Fa	June 13, 1831
Painting, elastic stamp, ornament	Thomas Pownton	Window Ve	July 12, 1832
ing walls	Thomas Boynton		May 92, 103%
Painting, fret	John Mackay		
Painting rooms	John Selby	Nam Vank N V	Dec. 30, 1803 Jan. 6, 1846
Pen case		New York	Ton 17 1700
Pen, double	Mark J. Brunell	Now York	Tune 00 1010
Pen, flying	Lewis M. Despraugh	Panding Pa	June 29, 1816
Pen, fountain		Reltimore Md	Oct. 9, 1841
Pen, fountain		Canaicharia N V	Sent 9 1942
Pen, fountain Pen, fountain, self-supplying	Nelson Bartlett Marcus T. C. Gould	Dhiladalahia Da	Oct 1 1230
Penholder	William Fife	Dhiladalahia Da	Sent 98 1830
		Dome More	Mar 4 1942
Penholders	Daniel Hamington	Dhiladelphia Da	Sant 9 1945
Penholders Pen, instrument for holding	Daniel Harrington Henry Smith	Georgetown D C	lon 15 1x18
Pen, metallic, writing	Personing Williamson	Reltimore Md	Nov. 99 1900
Pen, metallic	Peregrine Williamson Peregrine Williamson	New York	Mar 20 1885
Pen, metallic*	Henry C. Windle, Jo	THEW TOLK	Mai. 50, 1000
Len, metanic			1
	seph Gillot, and Ste-	England	Mar 91 1898
Pens, metallic	Thomas Woodward.	Brooklyn N V	Dec 1 1849
Pens, metallic	Timothy Alden	Barra Maca	Dec. 12, 1849
Pen, microscopic	Timothy Alden John Bennett	Lowell Mass	Oct 11 1898
Pen, self-supplying	Charles Cleveland	Middlehurg Vt	Dec 16 1831
Pen, spring ruler	Thomas M Pomeros	' Mindiebuig, VIIII	Dec. 10, 1000
Ten, spring ruler	A Lamuel Hodge	Windson V	June 21, 1815
Pens, steel writing	& Lemuel Hedge	Hingham Mass	July 3, 1844
Pencil cases	David Thomas	I TTUICHMILL MEMORITOR	Dury O, 10 se
Pencil case, ever pointed	Joseph Saxton	Dhiladelphia Da	April 11 1890
Pencil case ever nointed	William Jackson	Philadelphia, Pa	Inly 97 1894
Pencil case, ever pointed Pencil case, ever pointed	John Hague	New York, N. Y	Ang. 16 1990
Pencil case, ever pointed			-10, 10, 1000
out, or or pointed the term	Hopper, assignees of		
	G. W. Simons		Oct. 19 1839
Pencil case, ever pointed			Inne 10, 1840
Pencil case, ever pointed	Thomas Woodward.		Oct. 14, 1840
Pencil case and pen			
Pencil case and pen			May 10, 1836
Pencil, ever-pointed, open case.	Jacoh I. Lounda	Philadelphia Ra	Sept. 22 1886
Pencil, ever-pointed, lead	Elwood Meeda	Philadelphia Pa	June 26, 1836
von pomoce, mac	** ***********************************	. and the state of	.,, 1000

^{*} Antedated September 21, 1937.

inventions or discovering.	PATRICTES.	residence.	WHEN MADED.
Pencile, ever-pointed	A. G. Baglay, assigned		
Pencils, ever-pointed	of Jehn Durant A. G. Bagley	New York, N. Y New York, N. Y	June 27, 1846 Nov. 6, 1846
Pencils, lead, self-feeding, ever- pointed	James Boss	Philadelphia, Pa	July 20, 1846
Pencil, metallic slides and cases for ever-pointed	James Bogardus	New York	Sept. 17, 1833
Pencil and pen combined Pencil points, making, and com-	Jacob J. Hatcher Guy G. Baldwin	Philadelphia, Pa Ticonderoga, N. Y	
position	William Coover	Erie, Pa	Aug. 26, 1843
Piano, chromamometro, for tuning Piano, compensating tubes	Peter Peltinos Thomas Loud		Mar. 3, 1820 July 7, 1835
Piano forte	Jas. S. McLean John J. Hawkins	New Jersey	May 27, 1796
Piano forte	Ralph Shaw	Boston, Mass	July 2, 1806
Piano forte	George Charters John Geib	New York New York	July 8, 1815 Oct. 3, 1817
Piano forte	Jas. A. Gutwaldt	New York	Aug. 27, 1818
Piano forte	Alpheus Babcock C. F. L. Albrecht	Philadelphia, Pa	Mar. 18, 1828
Piano forte	Charles S. Sackmeister Charles P. Seabury	New York	May 17, 1830
Piano forte	Thomas Kearsing, H.	1014	, 20, 1000
	O. Kearsing, G. T. Kearsing, and Wm.		
Piano forte	F. Kearsing Louis Fissore	New York	June 13, 1831 July 22, 1838
Piano forte	John Pethick	Mount Morris, N. Y	Feb. 12, 1836
Piano forte	H. Hartye	Cincinnati, Ohio Baltimore, Md	Mar. 2, 1836 Mar 12, 1836
Piano forte*	Edwin Brown	Boston, Mass	Nov. 20, 1838
	William Cumston Jonas Chickering, Jno.	Doston, Mass	11ug. 0, 1000
	Mackay and William H. Mackay, assignees		
Piano forte	of Alpheus Babcock	Boston, Mass	Oct. 31, 1839 Oct. 8, 1840
Piano forte	Jonas Chickering	Boston, Mass	July 10, 1841
	Daniel B. Newhall Charles Bossert and	Boston, Mass	Nov. 3, 1841
	John Shoemaker	Philadelphia, Pa	April 29, 1842
Piano forte	Edwin Brown	Boston, Mass	Jan. 27, 1843
	C. Marsh	Boston, Mass	April 10, 1843
Piano forte	Jonas Chickering	Boston, Mass	Sept. 1, 1843
	Obed M. Coleman  Lovering Ricketts	Philadelphia, Pa Baltimore, Md	April 17, 1844 June 24, 1844
	Ottoviano Gori & Phi-	1	Mar. 26, 1844
	lip Ernst Simon W. Draper	Boston, Mass	June 20, 1845
Piano forta	Edward Badlam Samuel R. Warren	Potsdam, N. Y Montreal, Canada	Oct. 25, 1845 July 10, 1845
	E. L. Walker, ass'nee	Carlisle, Pa	Jan. 16, 1845
iano forte	of G. W. Cherry Louis Rueckert	Alexandria, D. C. S Baltimore, Md	Mar. 12, 1845
Piano forte	Charles F. Oliver & G. W. Jackson	Lynn, Mass	May 1, 1845
Y C			July 2, 1846
iano forte	John Schriber John F. Nunns	Utica, N. Y New York, N. Y New York	Oct. 29, 1846 May 5, 1831

^{*} Reismed December 31, 1898.

Piano forte, action of	PATENTENS.	RØGDSHCE.	When mound.
Mano forte, action of	<b>1 1</b>		
	John J. Wise	Baltimore, Md	June 27, 163
Diana farta action	Hiram Herrick	New York	Oct. 26, 1835
Piano forte, action	Timothy Gilbert	Bosten, Mass	Feb. 10, 1841
Piano forte, Æolian attachment of	1	_	
reeds, & mode of adjusting pitch		New Orleans, La	Sept. 27, 1845
Piano forte, bottoms for	William F. Senior	New York	Nov. 21, 1845
Piano forte, construction and ac-			
tion of	Alpheus Babcock	Philadelphia, Pa	Dec. 31, 1831
Piano forte, cross stringing	Alpheus Babcock	Philadelphia, Pa	May 24, 1836
Piano forte, glass strings	Richard Bury	Albany, N. Y	Aug. 21, 1819
Piano forte, hammer heads, fitting	John Mackay	Boston, Mass	Aug. 14, 1828
Piano forte, hammer heads used in			E-L 10 1041
Diama fanta haminantal	of Edwin Fobes Thomas Loud, jr	Boston, Mass	Feb. 10, 1841
Piano forte, horizontal		Philadelphia, Pa	May 15, 1827
Piano forte, horizontal Piano forte, horizontal		Boston, Mass	April 22, 1831 May 19, 1841
		Philadelphia, Pa	May 13, 1041
Piano forte, keys of	Levi Wilkins, ass'ees		
	of John Dwight		May 6, 1841
Piano forte, key for tuning		Boston, Mass	Nov. 14, 1836
Piano forte, longitudinal bar		Boston, Mass	July 29, 1824
Piano forte, shifting movement for,		20002, 1202011111	July 20, 1001
square or horizontal		Philadelphia, Pa	April 1, 1842
Piano forte, sounding board		Boston, Mass	Nov. 14, 1822
Piano forte, tuning		Baltimore, Md	Nov. 19, 1833
Piano forte, tuning pins for	Jos. Shaler Ives	Bristol, Ct	
Piano forte, upright		New York	
Piano forte, wrest pin of			
Picture frames, ornamental	John Parker & Lewis		,
• •	P. Clover	New York	Mar. 23, 1829
Picture, with looking glass back		i	
ground	Isaiah Jennings	New York	Nov. 11, 1831
Physiognotrace			
	William Bache	Pennsylvania	
hysiognotrace	Daniel Atherton	Richmond, Va	
Plates, graphic, for bank notes	John Meer	Philadelphia, Pa	July 1, 1815
Plate holder, self-regulating sus-	Southmanth & House	Dantan Mana	T 19 1046
pension	Southworth & Hawes.	Boston, Mass	June 13, 1846
linders	William I. Stone	Washington, D. C.	April 30, 1831
Plates, punched, etched, wiping &	Wantan I. Stone	washington, D. C.	April 50, 1034
polishing their exterior surfaces	Samuel Conillard, ir.	Boston, Mass	Oct. 9, 1830
Plates, stereotype	Nathan Hale	Boston, Mass	Nov. 20, 1829
Plettro lira		Philadelphia, Pa	July 22, 1833
Polishing plates used in taking		, , , ,	·, 2000
likenesses, apparatus for	John Johnson	New York	Dec. 14, 1841
Printing, anastatic	C. F. Baldamus & F.	1	
	W. Siemans	Berlin, Prussia	Oct. 25, 1845
Printing apparatus	Joseph Warren	Warwick t'p, Ohio	May 2, 1835
Printing, art of	William M. Dodge	New York	Mar. 6, 1893
Printing books	Samuel Randali	Warren, R. I	Jan. 4, 1816
Printing both sides of a continuous			
sheet†	Thomas Trench		Nov. 20, 1837
Printing calicot	R. Ferguson and John		
	Clark	Glasgow, Scotland	April 25, 1846
Printing in colors	Alex. D. McKinzie	Philadelphia, Pa	Nov. 6, 1846
Printing in colors		rnuadelphia, Pa	sept. 17, 1844
Printing and drawing checks to	Tal a Disc	DL11-1-1-1- D	T 01 1000
prevent counterfeits	John Dainty	Philadelphia, Pa	
Printing, electrographic	A. W. Thompson		
Printing, facilitating	Sam'l N. Dickinson	Boston, Mass	Nov. 19, 1833
Printing & forming colored figures	John Edmanda	Now Vork	Ana 90 1914
on hard substances	· · · · · · · · · · · · · · · · · · ·	INCHES FORESCO.	. A.U.Z. AZ. 1010
on hard substances	John Dive-	New Jersey	Ian 94 1704



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. AMPRICACION DI DISCONDINA	Patenzees.	residence.	WHAN 1940RD.
Printing machine	Charles F. Voorhies	Newark, N. J	April 8, 1834
Printing, machines for	Charles Thurber	Worcester, Mass	Aug. 26, 1843
Printing machinery	John Hatch	Boston, Mass	
Printing, by means of rollers	Burgess Allison & W. Elliot.	Washington, D. C	Mar. 11, 1819
Printing, with metallic or colored			•
powder	Geo. J. Newbury Aw. Law		Feb. 1, 1821
Printing paper on both sides	Henry Betts	Norwalk, Ct	May 12, 1802
Printing press, apparatus of Neal's			Nov. 4 1830
Printing press, card	Samuel Orcutt	Boston, Mass	Aug. 25, 1840
Printing press, circular	John B. Sawin & Thos.		
	B. Wait	Boston, Mass	Feb. 1, 1810
Printing press, construction of	William W. Smith		
Printing press, copperplate & steel	Jacob Perkins	Newburyport, Mass.	June 29, 1813
Printing press, copperplate Printing press, cylindrical	Cyrus Durand Chas. G. Williams	New York	Mar. 00 1000
Printing press, cylindrical	John B. Sawin & Thos.	LICW TUIR	101ay 23, 1020
	B. Wait		Jan. 28, 1811
Printing press, double cylinder, register	Sereno Newton	New York	Feb 96 1832
Printing press, double Napier	Sereno Newton	New York	Feb. 26, 1833
Printing press, double and single			
Napier	A. B. Tyler	New York, N. Y	April 4, 1846
Printing press, double cylinder	Richard M. Hoe	New York, N. Y	May 20, 1842
Printing press, Faustus Printing press, hand	Seth Adams	Boston, Mass	May 23, 1832
Printing press, hand	Samuel Couillard, jr Luke Hale	Hollis, N. H	Dec 19 1931
Printing press, hand	F. J. Austin	New York	Oct. 8, 1836
Printing press, hand, straightening		2.0	3, 1000
the toggle joint	Otis Tufts	Boston, Mass	Nov. 7, 1831
Printing press, and ink distributer		New York	Feb. 17, 1813
Printing press, locomotive cylinder		Dale - Paul - d	8 . 10 .010
Drinting near name	Smith	Belfer, England	Sept. 10, 1840
Printing press, power Printing press, power*	Daniel Treadwell Isaac Adams	Boston, Mass Boston, Mass	Oct. 4, 1830
Printing press, power	Isaac Adams	Boston, Mass	Mar. 2, 1836
Printing press, for proofs	Adam Ramage	Philadelphia, Pa	May 19, 1823
Printing press, register for Napier	Michael Caton & John		•
Printing press, roller	G. Rives	Washington, D. C Mount Pleasant, N.Y	Mar. 11, 1035
Printing press, roller	Joshua Laird	Pittsburg, Pa	Ang. 16, 1828
Printing press, Washington	Samuel Rust	New York	April 17, 1829
Printing press	Apollos Kinsley	Connecticut	Nov. 16, 1796
Printing press	Zach. Mills	Hartford, Ct	Feb. 26, 1813
Printing press	Daniel Pierson	Newburyport, Mass.	July 16, 1813
Printing press	Adam Ramage	Philadelphia, Pa	May 28; 1818
Printing press	John J. Wells	Hartford, Ct	Feb. 8, 1819
Printing press	Abm. O. Stansbury Samuel Rust	New York	Mov 13 1891
Printing press	Peter Smith		April 6, 1822
Printing press	Daniel Neall	Philadelphia, Pa	Nov. 15, 1825
Printing press	David Phelps	Boston, Mass	Sept. 15, 1826
Printing press	Samuel Fairlamb	New York	Nov. 4, 1826
Printing press	Samuel Couillard, jr	Boston, Mass	Oct. 5, 1827
Printing press	J. C. Holbrook and E. H. Thomas	Brattleborough, Vt	Feb. 7, 1828
Printing press	J. C. Holbrook and E.		
Drinting anna	H. Thomas	Brattleborough, Vt	
Printing press	John J. Wells	Hartford, Ct	June 29, 1829
Printing press	Jonas Booth, sen., Jas. Booth, Thos. Booth,		
	& Jonas Booth, jr Otis Tufts	New York	Sept. 1, 1829
Printing press	Otis Tufts	Boston, Mass	July 30, 1831

^{*} Extended 7 years from Oct. 4, 1844, by Congress.

† Reissued Feby. 13, 1834.



INVENTIONS OR DISCOVERIES.	PATRNTEES.	remuchce.	WHEN SHEET
			7. 00.00
rinting press		New York	Feb. 26, 16
rinting press	. William R. Collier	Washington, D. C	April 11, 18
rinting press	Otis Tufts	Boston, Mass	Aug. 22, 18
rinting press	. Adam Ramage	Philadelphia	Nov. 19, 18
rinting press*	J. Lemuel Kingsley	New York	Ap'l 22, 18
Printing press	. Hezekiah Camp	Trenton, Ohio	Mar. 4,18
rinting press	. William and Thomas	•	
• •	Schnebly	Hagerstown. Md	Sept. 7, 18:
rinting press	J. Lemuel Kingsley	New York	Oct. 31, 18
rinting press	. Stephen P. Ruggles	Boston, Mass	
rinting press		Cortlandtville, N. Y.	
rinting press		Boston, Mass	Sept. 27, 18
rinting press		New York. N. Y	
rinting press		New York, N. Y	
rinting press		Troy, N. Y	
rinting press		New York	Ian 4 184
		Troy, New York	Fab 00 10
rinting press		Woshington D.	Mar 01 10
rinting press		Washington, D. C	Anni) 00 10
rinting press		Cortlandtville, N. Y. New York New York, N. Y Boston, Mass	Mora 1 10
rinting press	Richard M. Hoe	New York	May 1, 18
rinting press	W. W. Marston	New York, N. Y	Sept. 12, 18
ronunciation of syllables		Boston, Mass	Nov. 3, 18
leading, mode of teaching		Courdangt, N. Y	reo. 10, 10
teeds, musical		Worcester, Mass	Dec. 31, 18
tuler, parallel	James Carrington	Wallingford, Ct	April 14, 18
luling books and paper	Mark J. Brunell		Nov. 16, 17
luling machine	. Daniel Brewer	Pennsvivania	April 22, 10
luling machine	. Asa Spencer	New London, Ct	Feb. 7, 18
tuling machine		New York	Sept. 4, 18
Luling machine	George Crosbie	Augusta, Me	Jan. 21, 18
luling machine	C. Lanuza	New York	Aug. 13, 18
luling machine		Norwich, Conn	
tuling machine, called the revolv			
ing rubber	Lemuel Hedge	Winsor, Vt	Mar. 3, 18
luling machine, cylindrical, pape	Iohn Fairbanks	Massachusetts	Nov. 30, 18
luling machine, cylindrical	John Fairbanks	Boston, Mass	April 91 18
luling machine, double	Tim Namball	Lynn, Mass	Dec 96 18
luling machine, hand	G Stromburge and	Lynn, Mass	Dec. 20, 10.
tumng macume, mana		Cincinnati, Ohio	Sont 1 19
tuling machine, for paper	Fred. Sauxay		
		Bellows Falls, Vt	Tune 15 10
duling machine, for paper		Dansville, N. Y	June 13, 16
tuling paper		New York	Oct. 10, 18
tuling paper		Troy, Mass	
uling paper	George L. Wright	Springfield, Mass	
culptors, apparatus for	Henry Dexter	Boston, Mass	Mar. 28, 18
eraphines, improvement in		Canton, Mass	June 22, 18
eals, watch	. S. Davis, H. P. Babbit		
	& B. P. Grinnell	Providence, Mass	Mar. 3, 18
fign, for lottery offices	Elijah Secor	New York	Feb. 9, 18
tamps, for malleable metal	Jacob Stroop	Landisburg, Pa	July 17, 18
tamps, for post and other office		Washington, D. C.	Sept. 9, 18
tamps, for post office		Templeton, Mass	Feb. 27, 18
tamping engravings on horn		Worcester, Mass	April 30, 18
tatues, design for	Alonzo I. Blanchard	Albany N. Y	Aug. 26, 18
tatues, casting, method of	Lawrence Myere	Philadelphia Pa	Jan. 8 18
tencilling	Ezekiel R Foster	Philadelphia Pe	May 13, 19
terentuning	Clement Dawison	Saratora N V	Nov 96 19
tereotyping	Amos D Allen	Windham Com	May 10 10
Schools pressing and antical	Hanne Maria	Panderilla N. A.	Dec 16 10
outers, pressing and cutting	Denry Moore	Accusvine, N. C	Dec. 10, 18
ransferring impressions from pa-	A. C. Baker & M. F.		
		AIDANW N V	wah 7 TM
per to wood.	Biddle	Albany, N. Y	FCD. 1, 10
per to wood. ypes, No. 1, design for ypes, casting	George Bruce	New York, N. Y	Nov. 3, 16

^{*} Reissued March 2, 1836.

PATENTEES.	residence.	MEN ISORD.
James Stewart	New York, N. Y	Mar. 21, 1842
David Bruce, jr	Williamsburg, Long	
- ··-		Nov. 6, 1843
		June 7, 1845
	Philadelphia, Pa	Aug. 4, 1845
	Roston Moss	Oct. 23, 1827
	New York	
of M. D. Mann and		
Steph. Sturdevant	New York	Jan. 7, 1831
Frederick Rosenborg		
		Sept. 9, 1843
		Jan. 29, 1811
Un K. Hill	New TOLK	Feb. 7, 1812
George Rmice	New York	Nov. 27, 1830
		Aug. 11, 1830
	2.00	11ug. 11, 1000
	New York	Jan. 7, 1831
Richard Hemming		Dec. 16, 1845
Jas Halden Young	England )	•
Adrien Delcambre.	France	June 22, 1841
Archibald Binney	Philadelphia, Pa	Feb. 4, 1811
David Bruce, jr		Mar. 10, 1838
		July 23, 1829
		April 25, 1846
		April 27, 1832
q		Oct. 8, 1818
		Feb. 17, 1890
	Charleston S. C.	April 21, 1831 May 11, 1811
		May 8, 1840
	Warren, R. I.	Oct. 1, 1810
	Warren, R. I	Jan. 11, 1812
	David Bruce, jr  David Bruce Thomas W. Starr Jno. Sturdevant & E. Starr William M. Johnson David Bruce, jr William R. Collier. Elihu White, (assignee of M. D. Mann and Steph. Sturdevant. Frederick Rosenborg  Lemuel Blake George B. Lothian. Archibald Binney Archibald Binney Archibald Binney Archibald Binney George B. Lothian. Elihu White, (assignee of S. Sturdevant. Richard Hemming. Adrien Delcambre. Archibald Binney Variant Hemming. Adrien Delcambre. Archibald Binney Josiah Warren. Fredrick Morgan Josiah Warren. Fredrick Morgan Josiah Warren. Fredrick Morgan Josiah Warren. Fredrick Morgan John Edwards. Robt. McCormick, jr. Ezra L. Miller William Davison Charles Thurber Samuel Randall	David Bruce, jr

#### CLASS No. XIX.

# FIRE ARMS,

AND

IMPLEMENTS OF WAR, AND PARTS THEREOF,

Including the Manufacture of Shot and Gunpowder.

CLASS XIX.—PIRE ARMS AND IMPLEMENTS OF WAR, AND PARTS THEREOF, including the Manufacture of Shot and Campowder.

muchitique or discoveries.	PATENTEES.	residence.	WHEN ISSUED.
Balls, cannon, manufacturing from		,	
malleable iron	L. Grandy &T.Osgood	Troy, N. Y	Feb. 3, 1641
Belle, or shot, manufacturing	Levi Magers	New York	Nov. 13, 1840
Balls, throwing, machine for	Joseph Martin, M. D.	Louisville Ky	Aug. 3, 1840
Berrels, gun	Asa Waters	Milbury, Mass	Oct. 25, 1817
Barrels, gun, boring	Nathan Fordes	Plymouth, N. H	Dec. 22, 1804
Barrels, gun, boring bit, nut for	James Greer	Harper's Ferry, Va.	Oct. 3, 1817
Barrels, gun, draw, grinding Barrels, gun, and of firearms, man-	Thomas Dekin	Harper's Ferry, Va.	July 28, 1820
ner of combining	Jesse Griswold	Chambers co., Ala	Feb. 1, 1842
Barrels, gun, manufacturing plates		a : a : : : : : : : : : : : : : : : : :	7 1 10 1004
for	Harvey Mills	Springfield, Mass	July 12, 1834
Barrels, gun, plating	John Fowler	Lancaster, Pa	Jan. 4, 1810
Barrels, gun, rifle, or plain Barrels, gun, scarfing, and rolling	Artemas Wheeler	Concord, Mass	Feb. 19, 1819
the scarf	John Bruce	Springfield, Mass	Oct. 15, 1824
Barrels, gun, turning	Sylvester Nash	Harper's Ferry, Va.	April 11, 1818
Barrels, gun, turning	Asa Waters	Middlebury, Mass	Dec. 19, 1018
Barrels, gun, turning Barrels, gun, turning, lathes for	D. Dana and A. Hol-	Hartford, Ct	May 1, 1810
Domesia and and	mead	Canton, Mass	Aug. 24, 1818
Bayonet sockets	Andrew Wilson	New York	June 11, 1814
Bomb, submarine or mine	Jas. McGregor, jr	Wilton, N. Y	Mar. 23, 1842
Common balls on the short have a balls	Daniel Treadwell	Cambridge, Mass	June 20, 1846
Cannon balls or shot, bomb shells	Abial Phias	Dhiladalahia Da	Oat 6 1949
casting, mode of forming moulds		Philadelphia, Pa	Oct. 6, 1843 May 30, 1837
Cannon, cast iron	Cyrus Alger Edwin Gordon	Boston, Mass	Feb. 17, 1836
Cannon, for chain shot	Wm. H. Bell	Hingham, Mass Fortress Monroe, Va	D 0 4000
Cannon locks.	Enoch Hidden, ass'ee	roncess momoc, va	200. 0, 1000
Cumon location in the contract of the contract	of Hidden & Sawyer	New York, N. Y	April 29, 1849
Cannon, malleable iron	Geo. W. Chapman	New York	June 16, 1836
Cannon, method of discharging	Heary Whitcomb	Adams, N. Y	Oct. 25, 1826
Cannon, pointing	John Hobday	Portsmouth, Va	May 30, 1837
Cannon, pointing	Jer. Black	Northumberland, Pa	Jan. 17, 1818
Carmon, primers for, percussion	Wm. H. Bell	Fortress Monroe, Va	Dec. 8, 1829
Cannon, primers for, percussion	Joshua Shaw	Philadelphia, Pa	Dec. 3, 1632
Cannon, rotary cylinder, many	·	. ,	•
chambered*	John W. Cochran	Lowell, Mass	Dec. 22, 1834
Cannon, traverse board	Wm. H. Bell	Washington, D. C.	May 14, 1836
Cannon, vent	W. H. Robertson, as-	- '	
	signee of J.W.Coch-		
<b></b>	ran	Lowell, Mass	Mar. 23, 1836
Cotton-wool, and other substan-			
ces, a substitute for gunpowder	C. F. Schænbein	Basic, Switzerland.	Dec. 5, 1846
Cannon, wrought iron	Daniel Treadwell	Cambridge, Mass	Feb. 12, 1845
Cannon, wrought iron, making	S. Hunt, adm'r of S.	1	
İ	Hunt of Stonington,	777-1	No. 04 1040
Cannon	Conn	Wolcottville, Ct	Nov. 24, 1848
Cannon, wrought iron and steel.	Ransom Cook	Saratoga Sp'gs, N. Y	Feb. 1, 1842
Cannonade, screw box, elevating,	Pack Hillian	Now Vork	Annil 96 1006
and cap		New York	•
*Reisturd March 23, 163	5. † Engli	ich patent dated Oct. 8, 18	<b>55.</b>

INVENTIONS OR DISCOVERIES.	PATRITUES.	RESIDENCE.	WHEN ISSUED.
Carriage, for field artillery	David Cobb	Boston, Mass	April 25, 1806
		New York	Feb. 19, 1806
Carriage, gun	Samuel Hawkins		
Carriage, gun	Wm. Smith	Washington, Ky	July 19, 1836 Oct. 20, 1837
Carriage, gun, on ship board	John Bubier	Marblehead, Mass	Non 90 1914
Carriage, pivot gun	L. M. Leighton	Portsmouth, N. H.	Nov. 29, 1814
Cartouch box	John Mix	New York	June 3, 1813
Cartouch box	Robert Dingee	New York	Aug. 15, 1835
Cartouch box, boring blocks Fire arms	Wm. Thornton and J.	Georgefown, D. C	July 10, 1810
	H. Hall	Washington, D. C	May 21, 1811
Fire arms	Albert Holcomb	Litchfield, N. Y	Oct. 31, 1822
Fire arms	Fordyce Ruggles	Hardwick, Maine	Nov. 24, 1826
Fire arms	Joshua Shaw	Philadelphia, Pa	May 7, 1829
Fire arms	J. W. Plummer and J.	-	·
	Clark	Wayne towns'p, O.	May 17, 1832
Fire arms	Jas. B. Porter	Girrard, Pa	Aug. 4, 1832
Fire arms	Samuel Colt	Hartford, Ct	Feb. 25, 1836
Fire arms	Elij. Fisher and D. H.	_	
TO:	Chamberlain	Boston, Mass	April 17, 1837
Fire arms	Henry Harrington	Southbridge, Mass	July 29, 1837
Fire arms	H. and C. Daniels	Chester, Ct	Feb. 15, 1838
Fire arms*	Wm. Jenks	Columbia, S. C	May 25, 1838
Fire arms	H. L. Thistle	New Orleans, La	Aug. 1, 1838
Fire arms	Samuel Adams	Springfield, Mass	Oct. 3, 1838
Fire arms	David Edwards	Zanesville, O	April 25, 1839
Fire arms	Nathan Starr	Middletown, Ct	May 3, 1839
Fire arms	Benj. F. Smith	South Hadley, Mass	
Fire arms	Silas Day	New York	Oct. 8, 1840
Fire arms	Wm. Hubbell		July 1, 1844
Fire arms		Philadelphia, Pa	July 30, 1844
Fire arms, and apparatus used	E. Savage & S. North	Middletown, Ct	July 30, 1043
therewith	Samuel Colt	Determen NT T	Aug. 29, 1839
therewith		Paterson, N. J	Tune 1 1949
Fire arms, attached muzzle	Philo S. Newton	Hartford, Ct	June 1, 1843
Fire arms, discharging	Robert Eastman	Brunswick, Me	Dec. 7, 1829
Fire arms, gun breech	Silas Day, assignee of Samuel Hall	New York, N. Y	Dec. 31, 1839
Fire arms, guns, pistols	Geo. Stocker and Jos.		April 8, 1840
Fire arms loading and dischangila	Bentley	Birmingham, Eng	
Fire arms, loading and dischargi'g	Philip A. Morinean	Philadelphia, Pa	Oct. 10, 1832
Fire arms, loading, mode of	Thomas McCarty	Elmira, N. Y	Mar. 11, 1837
Fire arms, locks for, constructing	Ethan Allen, (2)	Norwich, Ct	Nov 11, 1837
Fire arms, manner of discharging.	Joshua Shaw	Philadelphia, Pa	Jan. 30, 1841
Fire arms, many chambered	Elon B. Butterfield	Brattleboro', Vt	Mar. 16, 1839
Fire arms, many chambered	John W. Cochran	New York	April 29, 1837
Fire arms, many chambered	Daniel Leavitt	Cabotsville, Mass	April 29, 1837
Fire arms, many chambered	Curtis Parkhurst	Lawrenceville, Pa	Sept. 25, 1837
Fire arms, many chambered	P. F. Haviland and E.		
TO:	_A. Bennet	Waterville, Me	Feb. 15, 1838
Fire arms, many chambered	H. and C. Daniels	Chester, Ct	
Fire arms, many chambered	Theodore F. Strong	Northampton, Mass	April 21, 1838
Fire arms, many chambered	Rufus Nichols and Ed.		
Fire arms, many chambered	Childs	Conway, Mass	
Fire arms, many chambered	Mighill Nutting	Portland, Me	April 25, 1838
Fire arms, many chambered	Elijah Jaquith	Brattleboro', Vt	July 12, 1838
Fire arms, many chambered, cy- lindert	John W. Cochran	New York	May 8, 1837
Fire arms, many chambered, cy-			,,,,,
linder	Otis W. Whittier	Endfield, N. H	May 30, 1837
Fire arms and ordnance			May 22, 1837
Fire arms, overlaying with tin	Henry C. Fay	Lancaster, Mass	
Fire arms, portable	Samuel Ladd	Waltham, Mass	Oct. 14, 1835
mmo, por anie	Charles L. Stanislaus,	Sulina ettimi	T 00 1941
Fire arms, rifles	Baron Heurteloup .	Subject of France	
	James R. Thomas	Collingsworth, Ga	May 19, 1040
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^{*} Additional improvement, July 9, 1839. ‡ Antedated April 28, 1837.

[†]Reissued, Jan. 15, 1844, and Aug. 3, 1844. || Antedated February 23, 1839.

inameliche os diocoasiss.	PATRIFFEES.	residence.	WHERE MORE
Fire arms, rifles, moveable loading			
muzzle	Alvan ClarkL. Bailey, J. B. Rip-	Cambridge, Mass	April 24, 184
m	ley, and W.B. Smith		Feb. 20, 183
Fire arms, self loading and priming		City of New York	Aug. 31, 183 Jan. 27, 184
Forts, iron, constructing Gunnery, repeating	E. G. Woodman Jos. C. Chalmers	W. Middletown, Pa.	Mar. 23, 181
Jun, construction of	Alexander Boyden	Newark, N. J	Jan. 10, 189
Stuns, constructing large	Wm. F. Loper	Philadelphia, Pa	July 30, 184
Junpowder, corning or graining. Jun, to discharge seven or more	Leonard T. Swett	Canton, Ct	Nov. 16, 184
times	Artemas Wheeler	Concord, Mass Washington, D. C	June 10, 18: Sept. 22, 18
Jun-locks and percussion primers; Jun, manufacturing	Edward Maynard David G. Colburn	Canton canal, N. Y.	June 29, 18:
dun, percussion	Joshua Shaw	Philadelphia, Pa	June 19, 189
Gun, percussion	James Tyrer	Petersburg, Pa	June 3, 185
Gun, percussion, eight barrels	Samuel L. Faries	Middletown, O New York	Oct. 10, 182 April 12, 182
Gun, percussion, and pistols Gun, revolving, four barrel, and	Joseph Finch	New LOIA	April 12, 10
percussion lock	Hy. Rogers	Middletown, O	May 7, 182
Gun stocking, machinery for	Samuel D. Sizer	Springfield, Mass	May 19, 18
Knapsacks, folio, extension	James Boyd	Boston, Mass	Nov. 19, 18, Oct. 7, 186
Knapsacks, military Knives, or dirks, attaching to pis-	John Sherbette	Washington, D. C	1, 10
tols	Robert W. Andrews	Stafford, Ct	July 31, 18
Lock, compression, cannon	Joshua Shaw	Philadelphia, Pa	Dec. 3, 18
Locks, for fire-arms	Ethan S. Chapin	Stafford Spring, Ct	July 17, 18 Nov. 11, 18
Locks, for fire-arms	Ethan Allen Edward West		July 6, 18
Lock, gun	Alexander A. Colville		April 28, 18
Lock, gun	Simon Cromwell	Edgcomb, Me	Feb. 3, 18
Lock, gun Lock, gun	Ephm. Gilbert Abel Judson	Rochester, N. Y	April 3, 185 June 13, 185
Lock, gun	Robert H. Fauntleroy	Posev county, Ind	Aug. 17, 18
Lock, gun	J. B. Gray	Fredericksburg, Va.	Oct. 7, 18
Lock, gun	Samuel Morrison		Feb. 10, 18
Lock, gun	Philo W. Hoyt Johnson Marsh		Mar. 10, 18: July 1, 18:
Lock, percussion	William A. Hart		Feb. 20, 18
Lock, percussion	Marvel Davis	Mayville, N. Y	July 10, 18
Lock, percussion	Jos. Shattuck		Nov. 10, 18
Lock, percussion Lock, percussion	Owen Moses Jedediah Caswell		May 3, 189 May 8, 189
Lock, percussion	Jos. Lawrence		May 24, 18
Lock, percussion	Nathaniel Saltonstall	New London, Ct	May 29, 18
Lock, percussion	Samuel Forker		Feb. 13, 18
Lock, percussionLock, percussion	Michael Carleton Israel B. Richardson.		Dec. 23, 18 Feb. 17, 18
Lock, percussion	Francis Dowler		April 9, 18
Lock, percussion	David G. Colburn	Port Byron, N. Y	Oct. 25, 18
Lock, percussion, cannon	Joshua Shaw	Philadelphia, Pa	Oct. 24, 18
Lock, percussion, cannon	Enoch Hidden		Jan. 14, 18
Lock, percussion, cannon	to S. Ringgold and		Dec. 16, 183
Lock, percussion, cannon	Enoch Hidden	New York	Aug. 20, 18
Lock, percussion, cannon	Robert Beale	Washington, D. C	Jan. 13, 183
Lock, percussion, concealed	Joel Newbury	Poughkeepsie, N. Y.	April 27, 183
Lock, percussion, gun	Robert Beale Thomas Daplyn		Feb. 20, 183 Feb. 20, 183
Lock, percussion, lever	John Ambler, jr	S. New Berlin, N. Y.	
	Tomas B Lower	Mayville, N. Y	Sept. 11, 182
Lock, percussion, magazine Lock, percussion, side, for rifles			

^{*} Antedated Nov. 6, 1838. † Additional improvement, Jan. 23, 1838. ‡ Antedated March 22, 1843.



TRANSPORTE OR DISCOVERES.	Patrutera.	Rasidanica.	ASIEN ISUCED.
Lock, percussion, and vent for			,
Lock, percussion, and walking	William H. Bell	Norfolk, Va	Oct. 1, 1830
cane rifles and pistols	Alvin D. Cushing	Troy, N. Y	July 20, 1831
Lock, percussion, water proof, self- priming	Samuel L. Faries	Middletown, Ohio	May 29, 1828
Lock, portable, cannon	Joshua Shaw	Philadelphia, Pa	Dec. 3, 1832
Leck, rifle	Jos. Medberry and S. Kellogg	Rochester, N. Y	June 16, 1826
Leck, safety	Heinrich Bachman	Lancaster, Pa	Aug. 21, 1833
charges	J. Miller	Brighton, N. Y	June 11, 1829
Percussion powder, for discharging arms	Samuel Guthrie	Sackett's H'r, N. Y.	Aug. 21, 1834
Pistels	B. and B. M. Darling. John Elgin	Bellengham, Mass New York	April 13, 18 <b>36</b> July 5, 1837
Pistols, knife, or cutlass Pistols, pocket	Victor M. Wallace	West Topham, Vt.	Aug. 17, 1835
Pistols, sabre	Robert B. Lawton Ethan Allen	Newport, R. I	Nov. 30, 1837
Pistols	Henry Carbery and	Norwich, Ct	April 16, 1845
Pontoon equipage for military	Wm. Tatham Elisha M. Huntington	Washington, D. C	July 19, 1816
,	administrator of J. F.	Tame Hauta Ind	Tuna 17 1940
Powder	R. I. L. Witty	Terre Haute, Ind Lowell, Mass	June 17, 1840 April 2, 1838
Powder, granulating	E. J. Demones Dupont		Nov. 23, 1804
Powder, granulating	Richard Crosbie Jos. Worslie	Newark, N. J Berne, N. Y	Feb. 17, 1812 Feb. 21, 1815
Powder, granulating Powder, granulating	Charles Dalmas Daniel Rogers	Wilmington, Del Newberg, N. Y	April 26, 1816
Powder, granulating	Gardiner Fulton	Philadelphia, Pa	Aug. 26, 1818 Aug. 21, 1819
Powder, granulating Powder, manufacturing	Wm. F. Richardson Thomas Ewell	Baltimore, Md Georgetown, D. C	Aug. 3, 1822 Dec. 7, 1813
Powder, manufacturing	J. M. Merrow & R.		
Powder mill	McKee, Jr George Keyser	E. Hartford, Ct Philadelphia, Pa	April 19, 1822 July 27, 1803
Powder mill, manufacturing gun-			
Powder mill, and rice	Henry Keyser Benjamin Bolitho	Philadelphia, Pa Pennsylvania	Aug. 10, 1791 Feb. 7, 1800 May 6, 1807
Quadrants, gunners'	Charles Hammond Charles C. Barstow	Concord, Mass Exeter, N. H	May 6, 1807 Nov. 21, 1820
Ramrods, screw, knives and forks.	Aaron Broad	Litchfield, Ct	June 6, 1814
Rifles	Elisha Strong & Cot- ton Kellogg	New Hartford, Ct	Aug. 31, 1810
Rifles	Fred. Oswan	Harper's Ferry, Va.	Feb. 25, 1815
Rifles	Obediah Stith Roger N. Lambert	Quarlestown, Va Upton, Mass	Mar. 16, 1819 Feb. 27, 1832
Rides, double shooting	Cyrus Mosher & No- ble White	Hamilton, N. Y	
Rifles, manufacturing	Joseph W. Plummer	Ť	
Rifles, repeating	and John Clarke Isaiah Jennings	Wayne tp., Ohio New York	Sept. 22, 1821
Rocket staffs, mode of stiffening	John W. Cochran	New York	April 30, 1840
Rockets, war, boring	Alvin C. Goell Alvin C. Goell	Washington, D. C Washington, D. C	Mar. 18, 1841 Feb. 18, 1841
Shell and shot, elongated, spiral flanged	Wm. B. Pier and An-	-	
	drew Mack	Detroit, Mich	April 6, 1832
Shot and balls, casting, of lead Shot, buck, manufacturing	Daniel Pettibone John Snyder	Philadelphia, Pa New York	Nov. 10, 1819 Jan. 26, 1832
Shot, charge	George W. Dobbin	Baltimore, Md	Mar. 23, 1838
Shot, chain and cleaver, discharging	Israel Hatch	Massachusetts	May 24, 1892
•			•

INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHEN ISSUED.
Shot, manufacturing	Julius Willard	Middletown, Ct	July 10, 1830 July 17, 1809
Shot, manufacturing	Alfred Duval	Baltimore, Md	May 8, 1838
Shot, manufacturing, and bullets Shot, manufacturing, by pressure.			
Shot, manufacturing, by pressure.	Thomas Bruff	Washington, D. C	June 4, 1813
cylinder for	James M. Ludlum	New York	Aug. 3, 1813
Shot, manufactory	Phineas Daniel	Philadelphia, Pa	Mar. 31, 1804 Feb. 10 1825
Sponges, for artillery	John Gether	Philadelphia, Pa	May 16, 1826
Steam, shooting with			
Stock, gun, crooking			
Stock, gun, sawing	Abraham Myers	Boonsborough, Mass	Nov. '9, 1832
Stock, gun, turning*			
Throwing balls, shot	Robert McCarty	City of New York	Dec. 31, 1838
Torpedo	Eb. Ford	Washington D.C.	April 14, 1814
Trucks, gun, cutting	Joshua Shaw	Philadelphia, Pa	Mar. 17, 1834

#### CLASS No. XX.

### SURGICAL

AND

### MEDICAL INSTRUMENTS,

Including Trusses, Dental Instruments, Bathing Apparatus, &c.

CLASS XX.—SURGICAL AND MEDICAL INSTRUMENTS, including Trusses, Dental Instruments, Bathing Apparatus, &c.

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INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHEN ISSUED.
Abdominal supporter	L. D. Fleming	Newark, N. J	Dec. 31, 1845
Bandages, pads	Robert Thompson	Columbus, Ohio	July 29, 1837
Bath, and bathing machine	William Merritt	New York	Feb. 1, 1814
	W. C. Palmer, M. D.	New York	Nov. 24, 1832
Bath, cot, elastic	John G. Giraud	Baltimore, Mi	Mar. 18, 1804
Bath, double still, steam			
Bath, floating	Henry Chevens	New York	July 13, 1813
Bath, medicated shampoo	Richard D. Mott	Boston, Mass	Dec. 16, 1833
Bath, medicated vapor Baths, medicated vapor	Morris Matson, M. D. Lucien E. Hicks and	Boston, Mass	Sept. 28, 1843
70 A 21 A 3	Thomas Miner	Middletown, Conn	Sept. 17, 1842
Baths, medicated	Benjamin Sweet	Mt. Morris, N. Y	Dec. 31, 1845
Baths, portable	Nelson Bartlett	Belvidere, Illinois	Sept. 23, 1845
Baths, portable shower	John Cutts Smith	Chelsea, Mass	June 2, 1845
Baths, portable	J. Wright Warren, jr.	Boston, Mass	July 31, 1840
Bath, portable, hot*	Samuel K. Jennings	Lynchburg, Va	Jan. 21, 1814
Bath, shower	Stephen Bates	Dedham, Mass	Oct. 12, 1843
Bath, shower, portable	Nathaniel Waterman.	Boston, Mass	Aug. 11, 1843
Bath, shower	Horace Wells John Deverin & J. O.	Hartford, Ct	Nov. 4, 1846
Bath, steam, applying simple or	Isabelle	Lexington, Ky	July 6, 1818
medicated	Boyd Reilley	Cincinnati, Ohio	Feb. 5, 1831
Bath, steam, applying simple or medicated	Boyd Reilley	Philadelphia, Pa	July 31, 1832
Bath, steam, medicated	Benjamin Marshall	New York	Dec. 7, 1821
Bath, vapor	P. P. N. D'Alvigny	Leonard street, N.Y.	Aug. 17, 1835
Bath, vapor	Thomas S. Lambert	Utica, N. Y	April 10, 1845
Bath, vapor	Joel H. Ross	New York	April 16, 1845
Baths, vapor, apparatus for	Alford C. Haines	Plattsburg, N. J	Dec. 4, 1844
Bath, vapor, portable	Charles W. Peale	Pennsylvania	June 16, 1801
Bath, veterinary, ventilated	James Carver	Philadelphia, Pa	Aug. 8, 1817
Bath, warm, vessel	Daniel Harrington	Centreville, Va	Oct. 4, 1813
Bathing apparatus	A. H. Reip, (assignee of W. G. Young	Baltimore, Md	Dec. 16, 1845
Bathing apparatus	Heinrich Bachman and		•
D.411.	Joseph Ehrenfried	Lancaster, Pa	Jan. 26, 1833
Bathing apparatus	Daniel Brumbley	New York	Nov. 19, 1833
Bathing apparatus†	George J. Byrd and	37 37 1	
	Peter Milne	New York	June 17, 1840
Bleeding, with leeches	John Kunitz	Philadelphia, Pa	May 7, 1805
Bleeding horses, instrument for	Cornelius Addle	Winthrop, Me	
Blind horses, curing	Jos. Sater	Huntsville, N. C	
Bones, setting, apparatus for	James H. Willard	Brown Elm, Ohio	June 11, 1836
Bougies for strictures	Robert J. Dodd	Philadelphia, Pa	Oct. 6, 1843
Breathing tubes	Jacob S. Rose	Philadelphia, Pa	
Cancers, drawing and curing	Jacob Ware	Philadelphia, Pa	Sept. 20, 1815
Cancers, curing	James Andrus		July 30, 1816
Catheter, metallic, flexible	Israel Balch and Moses Carter	Saliabury, Me	Oct. 26, 1815
Cataract, removing, by tubes	Francis B. Shaw		July 27, 1815
Cataract, instrument for operating		1	1 1
	Thos. R. Williams	Philadelphia. Pa	June 14. 1826
Chair, enema	Thos. R. Williams	Philadelphia, Pa Portsmouth, N. H	June 14, 1826 Aug. 8, 1846

^{*} Additional improvement March 3, 1843, extended 14 years from the 3d March, 1843. † Antedated February 8, 1839.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Clubfoot, apparatus for the treat-			
ment of	John B. Brown	Boston, Mass	April 30, 1840
Conception, instrument for pre-	J. B. Beers	Røchester, N. Y	Aug. 28, 1846
Venting	William Davis	Williamsburg, Va	Sept. 9, 1835
Corns, eradicating	Peregrine Williamson.	New York	May 17, 1838
Corslets for curved spines	Alanson Abbé	Roxbury, Mass	Aug. 7, 1844
Croup in poultry, curing	T. V. Bush	Clark, Ky	June 27, 1832
Cupping instruments Dislocations, reducing, apparatus	Robert J. Dodd	Philadelphia, Pa	April 13, 1844
for	George O. Jarvis	Portland, Ct	Sept. 14, 1843
Elevator, for the sick	John Elliott	Newbury, Mass	Feb. 15, 1811
Exercising machine	James Elliott	Newark, N. J	Sept. 2, 1845
.Feet, straightening reel for	Gideon Goodrick	Portland Har., N. Y.	July 22, 1833
Fractures, apparatus for the cure of		Middletown, N. Y.	Dec. 12, 1839
Fractures, apparatus for	Lewis Post	Lodi, N. Y	Dec. 16, 1844
Fracture apparatus	Wm. Mills & Mahlon		l <b></b>
D	Hoar	New Athens, Ohio	Nov. 8, 1845
Fractures, apparatus for *	Livingston Roe	White Plains, N. Y.	Nov. 6, 1844
Galvanic instruments	Daniel Harrington	Philadelphia, Pa	Sept. 2, 1845
Galvanic rings	David C. Moorehead.	New York	Aug. 26, 1845
jections	Charles P. Sage	New York, N. Y	Jan. 10, 1843
for the cure of †	Eleazer Crain	Springfield, Vt	Jan. 16, 1843
Invalids, chairs for	James G. Holmes	Charleston, S. C	Sept. 24, 1844
rooms	Daniel Harrington	Philadelphia, Pa	April 23, 1831
Lacteal or artificial breast	C. M. Windship, M.D.	Roxbury, Mass	Feb. 18, 1841
Lancet, spring	Jeremiah Dewey	Chelsea, Vt	April 2, 1824
Lancet, spring	John M. Van Osdel	Chicago, Ill	April 24, 1841
Lancet, spring	Jacob H. Gemrig	Philadelphia, Pa	April 11, 1846
Lancet, spring, and retreating	Thos. R. Williams	Newport, R. I	July 16, 1824
Lancet, or guard spring	Saml. Wilmot	Bridgeport, Ct	Oct. 25, 1832
Lancet, revolving	T. C. Harrison	New Egypt, N. J	June 20, 1836
debility in the	Stephen P. W. Douglass	Palmyra, N. Y	May 15, 1841
Leg, artificial	Benj. F. Palmer	Mcredith, N. H	Nov. 4, 1846
Leg and thigh, extending	Joseph Merrill	Glasgow, Ky	June 22, 1832
Lythontripter	Isaiah Lukens	Philadelphia, Pa	Dec. 30, 1826
Milk, drawing from breast	D. Haughtaling & A. Maneely	Watervleit, N. Y	June 11, 1829
Milk, drawing	Elihu Blake	New York	April 24, 1830
Nipples, artificial‡	Elijah Pratt	New York	Aug. 4, 1845
Nipple shield	William Baxton	Woburn, Mass	April 2, 1835
Nipple shield, artificial, metallic	John J. Heintzleman	Philadelphia, Pa	Mar. 16, 1833
Nursing bottle	Eugene Dupuy	New York	Oct. 7, 1844
Nursing bottle §	Elijah Pratt	New York	Aug. 9, 1845
Nursing cup	Sylvester W. Talbot	Dedham, Mass	April 19, 1833
Pessaries	Luke Parker	New York	Sept. 12, 1822
Pessaries	Jos. Warrington and		
•	Wm. Scatterford	Philadelphia, Pa	Sept. 5, 1831
Pessary	Joel B. Merriman	Sheffield, Mass	Oct. 24, 1846
Pessaries for prolapsus uteri	Samuel W. Stockton, assignee of Samuel		T 00 10:0
The transport of the second	K. Jennings		
Points, metallic, to remove pain	Elisha Perkins		
Pump, breast	James P. Stabler	Sandy Spring, Md	June 19, 1834
Pump, stomach and breast, and	•		
cupping instruments	Lemuel P. White	New York	July 22, 1633
Resuscitation, apparatus for	Edward Welshman	Cold Spring, N. Y.	April 11, 1842
Scarificator	George Tiemann	New York	Aug. 26, 1834
ScarificatorScarificator	A. F. Ahrens	Philadelphia, Pa	Aug. 26, 1846
Bearineator	George Tiemann	New York, N. Y	Aug. 20, 1846

^{*} Antedated May 6, 1844. § Antedated June 16, 1845.

‡ Antedated July 4, 1845.



[†] Antodated July 16, 1842. Reissued Dec. 23, 1834.

INVESTEDES OR DESCOVERIES.	PATRICIPALES.	'SIBALISTANCS.	WHEN HINED.
Sick, machine for moving	John C. Jenckes	Providence, R. I	May 29, 1893
Speculum ani	Joseph T. Pitney	Auburn, N. Y	July 23, 1611
Spinal diseases, apparatus for the cure of	John S. Sullivan	New York, N. Y	May 16 1846
Spine, inflected apparatus	Jas. K. Casey	New Yerk	June 23, 1828
Spine, stays for	Luden McKechnie	Pennsylvania	July 1, 1796
Splints, for fractured limbs Splints, for fractures	D. S. C. H. Smith Enoch Thomas	Suuen, Mess New Athens, Ohio	
Splints, flexible, for fractured limbs		Smithfield, Ohio	
Stays for supporting spine of the human body	Lyman Whiton	Troy, N. Y	Oct. 12, 1844
Stone in the bladder, instrument	Jas. Lee Hannah	New York	Ang 19 1834
for crumbling	Andrew Lake	Flatbush, N. Y	
Bupporters, abdominal	Jos. White, S. Marsh, and H. Smith	Canajoharie, N. Y	
Bupporters, umbilical, combined			
Supporters, uterine	Maria P. Dibble Alex. H. McNair	New York city Philadelphia, Pa	May 20, 1842 July 28, 1843
Swing for exercise	Joel H. Ross	New York	' Aug. 26, 1845
Syringes, enema	J. Parshall & D. Gilbert		
Syringe, injecting	Joseph Ralph	New York	
Teeth, artificial, metallic plates, ad-			
justing to	Thomas Vanderslice Chas. M. Graham		
Teeth, artificial, adjusting the	Onas. Ivi. Granam	i madespina, i a	144. 0, 1001
grinding surfaces of	James Cameron	Philadelphia, Pa	April 30, 1840
Teeth, artificial, mode of attaching Teeth, artificial, manufacture of t.		Philadelphia Pa	Dec. 10, 1840
Teeth, apparatus to keep free from		_	
Tenth composition for preserving	Charles Newton		Sept. 27, 1825
Teeth, composition for preserving Teeth, cylinder turnkey for ex-		i New Tork	June 17, 1020
tracting	Hiram Todd	Columbus, O	May 9, 1846
Teeth, engrafting	Elijah A. Bigelow Thomas Bruff		Mar. 8, 1827 July 1, 1797
Teeth, extractor parallel moving.		New York	July 13, 1829
Teeth, and gums, obtaining casts		Distribution De	A 00 1040
Teeth, key for extracting	Janiel T. Evens John McConnell	Philadelphia, Pa Philadelphia, Pa	
Teeth, improvement in setting	Matt. S. Foster	Trenton, N. J	Nov. 12, 1842
Teeth, metallic	Anthony Plantou	Philadelphia, Pa Philadelphia, Pa	April 5, 1828
Teeth, porcelain, securing them Teeth, preventing decay	S. G. Chamberlain H. H. Hayden	Baltimore, Md	Feb. 11, 1831 Feb. 11, 1824
Teeth-setting	John Allen	Cincinnati, O	Dec. 16, 1845
Teeth, setting artificial	Jonathan Dodge J. Smith Dodge	New York city New York	Mar. 4, 1043
Testh, setting natural and artificial	Wm. R. Eagleston	Baltimore, Md	Oct. 4, 1817
Thigh, fractured, apparatus for	Samuel Wolston	Vincentown, N. J	July 2, 1836
Tooth extractor	. Moses R. Hanson David H. Dickey	Bangor, Me Boston, Mass	Mar. 12, 1836 Aug. 30, 1838
Tooth extractor	J. W. Baker & W. W.	Columbus, O	Nov. 8, 1845
Tooth extractor	.  M10868 J. H1111	Bloomfield, Ind	June 7, 1841
Toth extractor, vertical	. I. W. Rutherford	Albany, N. Y	Jan. 4, 1831
Tourniquet			July 31, 18 <b>33</b> Jan. 29, 1801
Tonsillarum sector	. Wm. B. Fahnestock .	Lancaster, Pa	May 25, 1832
Trues	James Cerneau	New York	Aug. 17, 1809
Truss.	Amos G. Hull	Utica, N. Y	July 17, 1817
TITUSS	Benjamin Stratton	Philadelphia, Pa	June 23, 1819
*Autodatal Nov. 17. 1	.  Christian Stockman 845	Albany, N. Y	

*-Amundated Nov. 17, 1845. † Antelated June 18, 1840. † Antelated June 18, 1840. † Dec. 20, '30. Aug. 17, '31.

INVENTIONS OR DISCOVERIES.	Patrites.	RESIDENCE.	were assum.
Truss	John Blagge	Portland, Me	Dec. 15. 1995
Truss	Seymour Marsh	Canajoharie, N. Y	
Truss		Baltimore, Md	
Truss	Jesse C. Earl	Baltimore, Md	
Truss	Ralph Glover	New York	May 3, 1833
Truss	Hor. G. Jamieson	Baltimore, Md	Aug. 29, 183
Truss		Derby, Ct	Nov. 19, 1
Truss		New York	
Truss		Madison, Ct Huntsville, Ala	
Truss		Pittsburg, Pa	April 6, 1843
Truss	John V. Wilson	New Haven, Ct	May 26, 1843
Truss	David Sabin	Lancaster, Pa	
Truss	Epenetus Bennet	New York	April 30, 1844
Truss	Carter & Reinhardt	Baltimore, Md	
Truss		New Orleans, La	Nov. 6, 1844
Truss		Springfield, Mass	
Truss		New York city	
Truss		Strasburg, Va	Mar. 21, 1846
Truss	B. C. Everett, assignee of B. W. Stratton	Philadelphia, Pa	Mar. 21, 1846
Truss		Philadelphia, Pa	
Truss		Bethlehem, Conn	
Truss, bolted		Boston, Mass	
Truss		New York	
Truss, common convex	Philip Hittel	Philadelphia, Pa	May 2, 1835
Truss, corset	Johannes Oberhausser	Charleston, S. C	Jan. 20, 1638
Truss, double pads	Wm. R. Goulding	New York	
Truss, double spring, angular		New York	Aug. 30, 1811
Truss, double spring		Baltimore, Md	Nov. 19, 1833
Truss, elastic		Leominster, Mass	
Truss cum elastic harnis	Vernum Wilkinson	Philadelphia, Pa New York	
Truss, gum elastic, hernia Truss, gum elastic, hernia	Robert Semple	Vidalia, La	
Truss, for hernia	Thomas Lawrence	Winchester, Ky	Aug. 4, 1834
Truss, for hernia		Nicholasville, Ky	Oct. 31, 1834
Truss, for hernia	John W. Wood	Clarke co., Ky	April 2, 1835
Truss, for hernia		Lumpkin co., Ga	April 14, 1835
Truss, for hernia	J. J. Heintzelman	Philadelphia, Pa	
Truss, for hernia	Wm. Adair	Pleasant Hill, Ky	Feb. 17, 1836
Truss, for hernia	Isaac Thompson		July 1, 1836
Truss, for hernia	Elijah Jaquith Heber Chase, M. D	Philadelphia, Pa	
Truss, for hernia		Providence, R. I	
Truss, for hernia*	Josiah Hungerford	Dover, N. Y	
Truss, for hernia		Petersburg, Va	
Truss, for hernia	John M. Sinton	Hackettstown, N. Y.	June 27, 1839
Truss, for hernia	William B. Dey		July 9, 1839
Truss, for herniat		Boston, Mass	Feb. 26, 1840
Truss, for hernia			
Truss, for hernia			June 17, 1840
Truss, for hernia	Edmund Landis	Lancaster, Pa	Oct. 22, 1842
Truss, for hernia, reducing, method		Carollton Ill	A
of treatment		Caronon, III	whin e, 1041
Truss, (improvement on Hull's)	Bela Farr	Norwich, N. Y	Mar. 9.4899
Truss, (imp't on Farr's & Hull's)	Eli M. Gibbs		
Truss, (imp't on Farr's & Hull's)	Eli M. Gibbs D. B. W. Hard	Bethlehem, Ct	Mar. 21, 1846
Truss, (imp't on Farr's & Hull's) Truss, ladies' Truss, metallict	D. B. W. Hard Frederick Harbach	Bethlehem, Ct Pittsfield, Mass	Mar. 21, 1846
Truss, (imp't on Farr's & Hull's) Truss, ladies' Truss, metallict Truss pads	D. B. W. Hard Frederick Harbach Ovando Hurlbut	Bethlehem, Ct Pittsfield, Mass	Mar. 21, 1846 Aug. 12, 1846
Truss, (imp't on Farr's & Hull's) Truss, ladies' Truss, metallict Truss pads  Truss, procidentia and prolapsus	D. B. W. Hard Frederick Harbach Ovando Hurlbut	Bethlehem, Ct Pittsfield, Mass Buffalo, N. Y	Mar. 21, 1846 Aug. 12, 1846 Aug. 8, 1846
Truss, (imp't on Farr's & Hull's) Truss, ladies' Truss, metallict Truss pads   Truss, procidentia and prolapsus uteri	D. B. W. Hard Frederick Harbach Ovando Hurlbut Amos G. Hull	Bethlehem, Ct Pittsfield, Mass Buffalo, N. Y New York	Mar. 21, 1846 Aug. 12, 1846 Aug. 8, 1846 May 7, 1834
Truss, (imp'i on Farr's & Hull's) Truss, ladies' Truss, metallict Truss pads   Truss, procidentia and prolapsus	D. B. W. Hard Frederick Harbach Ovando Hurlbut Amos G. Hull Allran Potect	Bethlehem, Ct Pittsfield, Mass Buffalo, N. Y  New York Danville, Ind	Mar. 21, 1846 Aug. 12, 1846 Aug. 8, 1846 May 7, 1834 June 29, 1835

*Additional improvement, July 2, 1842. † Antedated August 26, 1832. † Antedated February 12, 1846. This is a truss for a bridge, and should be in Class IX, page 192 . † Antedated June 21, 1846. † Reissued Sept. 14, 1839.

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-INVENTIONS OR DISCOVERISS.	Patritude.	residence.	when isoned.
Truss for prolapsus uteri		Bellbrook, O	Dec. 17, 1840
Trues for prolapsus uteri			April 10, 1841
Truss for prolapsus uteri & hernia	Geo. W. Riddell	Knightstown, Ind	July 11, 1842
Truss, relaxation of the vagina	A. G. Hull, adm'r of		• •
•	John F. Gray	New York	Dec. 9, 1835
Truss, ruptures	Cyrus Stone	Massachusetts	May 6, 1800
Truss, spiral	P. A. De Savignac	New York	July 13, 1809
Truss, spiral spring		Manlius, N. Y	
Truss, spiral spring, conical			
Truss, spiral spring			
Truss, spiral spring			
Truse, spring			
Truss, variocele	Amos G. Hull		
Uterine injections, instruments for			
Uterine supporter	Ephraim Colvin		
Vaccinator, spring			
Vaccination	James Smith	Baltimore Md	Inly 10 1899

#### CLASS No. XXI.

# WEARING APPAREL,

Articles for the Toilet, &c., including Instruments for Manufacturing.

CLASS XXI.—WEARING APPAREL, Articles for the Toilet, &c., including Instruments for Manufacturing.

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Bodkin, for inserting corset rings			
into cloth	Jonathan S. Turner	Middletown, Ct	April 25, 1837
Brush, cloth and hair	Herrick Aiken	Dracut, Mass	May 24, 1830
Brush, hair	Joseph B. Burgess	New York	April 14, 1835
Brush, tooth	Philos Blake	New Haven, Ct	Mar. 8, 1830
Buckles, for suspenders	Orange Webb	New York	July 5, 1817
	James Bingham		Feb. 4, 1843
Buckles, suspender		Philadelphia, Pa	
Bureau, dressing table	Nathaniel Perry	Boston, Mass	Oct. 13, 1809 Feb. 20, 1845
Buttons	John Hatch	Attleborough, Mass.	
Buttons, American wire-eyed	Festus Hayden	Waterbury, Ct	Oct. 1, 1830
Buttons, attaching to cloth	Henry S. Poole	Boston, Mass	Aug. 11, 1841
Buttons, composition, for wire-eyed		a	
<b>5</b>	A. Matthews	Connecticut	Mar. 1, 1816
Buttons, constructing eyes for met-	l		
al, cast in moulds	Ira Ives	Bristol, Ct	Aug. 7, 1815
Buttons, forming collets, washers.	Moses Ferre	Williamsburg, Mass.	July 28, 1842
Buttons, glass, finishing	Spencer Richards	Attleborough, Mass.	Aug. 19, 1822
Buttons, grinding steel dies for	Willard Robinson	Attleborough, Mass.	Mar. 3, 1829
Buttons, holdfast while polishing.	Ira Ives	New Haven, Ct	June 18, 1814
Buttons, machine for finishing met-		·	
_ al	Heman Matthews	Southington, Ct	Sept. 12, 1815
Buttons, machine for making wire	1	J.	
neck metal	Heman Matthews	Southington, Ct	Sept. 12, 1815
Buttons, manufacturing	Geo. W. Robinson	Providence, R. I	Mar. 24, 1804
Buttons, manufacturing of *	Thomas Prosser	Paterson, N. J	July 29, 1841
Buttons, manufacturing, called "the		,	
safe-eyed button,"	Chas. Goodyear	Philadelphia, Pa	Jan. 12, 1831
Buttons, manufacturing, dead-eyed		,	
wood	De Grasse Fowler	Branford, Ct	June 13, 1831
Buttons, manufacturing, dead-eyed	De Glasse Powier	Diamora, Ca	Va.10 10, 1001
	De Grasse Fowler	Now Propford Ct	May 8, 1833
wood	De Glasse Powiei	New Branford, Ct	141ay 0, 1000
Buttons, manufacturing, metallic,	Tanish Wandon in	Miliamahaan Mass	Dab 17 1091
flexible shank	Josiah Hayden, jr	Williamsburg, Mass.	Feb. 17, 1831
Buttone, metallic, making	Festus Hayden	Waterbury, Ct	July 10, 1840
Buttons, mode of constructing	G 75 13 14		
bright dies for stamping highly		****	0. 01 1000
polished blanks or shells for.	of Wm. B. Dunbar.	Waterbury, Ct	Oct. 31, 1839
Buttons, mode of fastening	Stephen Clapp, ass'ee of H. W. Hewet.		
		New York	Dec. 10, 1840
Buttons, moulds for casting metal.	Geo. W. Robinson	Providence, R. I	May 14, 1812
Button moulds wooden	Anson Matthews	Southington, Ct	April 26, 1815
Button moulds, single jointed, pew-			
ter, for wire-eyed	John B. Collins	Meriden, Ct	April 12, 1815
Buttons of paper †	Elisha M. Pomeroy	Wallingford, Ct	Sept. 23, 1843
Buttons, securing in a lathe	Geo. W. Robinson	Providence, R. I	June 27, 1809
Buttons, setting eyes of metal in		,	•
the moulds	Ira Ives	Bristol, Ct	Aug. 7, 1815
Buttons, smoothing and rounding			g,
the eye of metal.	Ira Ives	Bristol, Ct	Aug. 7, 1815
Buttons, turning.	Danl. French	Bristol, Ct Bridgeport, Pa	April 23, 1816
		New Haven, Ct	Jan. 4, 1815
Buttons, turning and polishing Buttons, wooden moulds	Tohn Moren	Southington C	June 13 1816
Parmine, Moodell Interiors	JUHH MOTOR	continuation, ot	actic 10, 1010

^{*} Antedated January 99, 1841.

inventions or discoveries.	PATENTERS.	residence.	when assued.
Calash, balloon, for ladies	Harriet Cook	Onondaga, N. Y	Feb. 20, 1833
Caps, manufacturing, and render-		Ononuaga, 14. 1	100. 20, 1000
ing them water proof *	Laban L. Macomber	Gardiner, Me	Jan. 19, 1831
Cläsps for pantaleon straps	William H. Miller	New York, N. Y	July 8, 1849
Clothes, pressing	Jos. Sage	Berlin, Ct	April 14, 1810
Collars, Belvidere, shirt	Wm. J. Cantelle and		
<b>6</b> 1	Robt. M. Kerrison.	Philadelphia	Nov. 19, 1899
Collars, for dress coats	Henry Clark	Brooklyn, Ct	Nov. 7, 1828
Combs, clarifying horse hoofs for		Southington, Ct	May 6, 1812
Combe, cutting	David E. Noyes	Philadelphia, Pa	Oct. 14, 1819
Combs, cutting	Nison Foot	Philadelphia, Pa	Oct. 28, 1819
Combs, cutting	Benjamin Haskill	Paris, France	Nov. 3, 1819
tion	Joseph H. Derby	Leominster; Mass	May 26, 1814
Combs, cutting, horn or tortoise	•		•
shell	Simeon Allen		April 1, 1815
Combs, cutting machine	Thos. G. Thomas	Philadelphia; Pa	June 14, 1817
Combs, cutting machine	Daniel Pettibone	Philadelphia; Pa	April 10, 1818
Combs, cutting the teeth of	Joseph S. Ives	Bristol, Ct	Oct. 8, 1846
Combs, for the hair	George Hooker	Bristol, Ct	April 3, 1835
Combs, forming and shaping	Saml. Lambert	Hanover co., Va	Jan. 9, 1825
Combs, machines for grailing	Philo Pratt	Meriden, Ct	Feb. 12, 1838
Combs, machine for making, call-			
ed a grinding comb stock.	ton and Jos. Rice	Lancaster, Mass	Oct. 1, 1830
Combs, making, ornamental	Uriah Bailey	Wt. Newbury, Mass.	Nov. 15, 1827
Combs, manufacturing	Phineas Pratt	Connecticut	April 12, 1799
Combs, manufacturing	Phineas Pratt	Saybrook, Ct	Mar. 5, 1806
Combe, manufacturing	Eli Sperry	New Haven, Ct	Mar. 28, 1816
Combs, manufacturing	Daniel Pettibone	Philadelphia, Pa	Aug. 11, 1819
Combs, manufacturing	John Brown	Providence, R. I	June 11, 1829
Combs, manufacturing	D Dadhara and War	New Haven, Ct	Oct. 10, 1895
Combs, manufacturing	B. Redheffer and Wm.	Down township Do	M 00 1000
Combs, manufacturing hair	Moses Moss	Penn township, Pa. Farmington, Ct	May 26, 1234
Combs, manufacturing hair	Timothy Stanley	Southington, Ct	Jan. 10, 1899 July 6, 1899
Combs, manufacturing hair	Ira Ives	Bristol, Ct	April 5, 1829
Combs, manufacturing, from hoofs	114 1165	Bridon, Cummin.	11ptil 0, 1000
of cattle	Robert Gedney	New York:	June 26, 1869
Combs, manufacturing, horn and	1505011 Godiney II 1 1 1 1	2.0 2012	J 4.110 20, 2000
shell	Samuel Parmelee	Saybrook; Ct	July 15, 1816
Combs, manufacturing, horn and		,,,	•
shell	Maulby J. Littleboy	Philadelphia, Pa	Nov. 19, 1830
Combs, manufacturing, ivory	David Williams, 3d	Saybrook, Ct	Mar. 28, 1810
Combe, manufacturing, ivory, bone,	,		
and woodf	Julius Pratt	Meriden, Ct	Dec. 28, 1839
Combs, manufacturing, and plat-		-	
ting harn with tortoise shell	John P. Spies	Baltimore, Md	Jan. 8, 1810
Combs, manufacturing, and slit-	-		
ting horn for lanterns	John Pulsifer	Newbury, Mass	May 24, 1814
Combs, manufacturing, snuff box-			
es, from raw hides	Samuel Pike	Providence, R. I	June 11, 1869
Combs, manufacturing, socket,			
_ hair	Eli Parsons	Bristol, Ct	Aug. 16, 191 <b>9</b>
Combs, manufacturing, welding,			
or comenting horn, hoofs	Arad B. Newton	Baltimore, Md	Mar. 31, 1834
Combs, manufacturing, wooden		Southington, Ct	May 9, 1809
Combs, metallic	Wm. A. Langworthy.		Feb. 28, 1816
Combs, metallic	Linus North	Otsego, N. Y	May 28, 1918
Combs, metallic.	Allen Porter	Hartford, Ct	June 14, 1834
Combs, metallic	Nathl. Bushnell	Middletown, Ct	Oct. 31, 1835
Combs, metallic	H. Durell	New York	June 20, 1836
Combs, metallic	H. Durell	Bristol, Ct	July 1, 1836
	H. Durell	Bristol, Ct Bristol, Ct	July 1, 1836 Mar. 28, 1838

Reissued Oct. 11, 1831.

† Disclaimer April 27, 1837.



ENTERNOSCIOL OR DISCOTERISCO.	PATERESMO:	REMIDENCES.	WEST WIFE.
Combs, ornamental, tortoise shell	Uriah-Bailey	W. Newbury, Mass.	Peb. 28; 1881
Combs, ornamenting	Eb. Mustin	Philadelphia, Pa	June 27, 1829
	ner Bush, Aaron Pratt, Zina K.	Meridén, Ct	
Comb-plates, planing or fashioning ivory or other.	Murdock: George Read, Al- pheus Starkey,	}	Oct. 28, 1840
arony or omor.	George Spencer, John C.Rodgers, ass'ees of Wm:	Saybrook, Ct	
Conebs, pressing horn for	Uriah Bailey	W. Newbury, Mess.	·Feb. 2, 1898
Consbs, pressing tortoise shell, horn	Reuben Munson	New York	May 22, 1892
Combs, pointing and cutting Combs, rolling the backs of Bra-	Isaac Tryon	Connecticut	Feb. 22, 1798
zillian tortoise shell	Nathl. Bishop Lewis B. Pindle and	Danbury, Ct	Nov. 17, 1827
ings	T. Curtis	Newtown, Ct	Oct. 10, 1899
Combs, stamp, twinning, and horn	William Redheffer Samuel Hills & Moses		June 18, 1849
splitting machine.	Emery, jr	Newburyport, Mass.	
Combs, teeth, cutting of	Maulby J. Littleboy Joel Brown	Philadelphia, Pa Springfield, Mass	May 28, 1816 Dec. 8, 1824
Combs, teeth, cutting of	Lemuel Adams	Redding, Ct	May 2, 1835 Sept. 9, 1825
Combs, teeth, cutting, ivory	Philo Pratt	New York	Sept. 9, 1825
Combs, teeth, sawing	Philo Pratt	New York	April 20, 1825
Combs, twinning horn and shell		Philadelphia, Pa Litchfield, Ct	Sept. 6, 1817 Aug. 20, 1813
Combs, vice used in cutting	Philo Prest	Meriden, Ct	Nov. 22, 1825
Combs, wooden	Nathl. Bushnell Mary Brush	Middleiown, Ct New York	April 14, 1829   July 21, 1815
Corsets	William J. Cantelo	New York	Dec. 31, 1891
Corsets, rings, grooves in Corsets, worn by females during	Charles Buckland	Middletown, Ct	June 2, 1836
pregnancy	Elizabeth Adams	Boston, Mass	Jan. 21, 1841
Corsets	Alanson Abbe	Worcester, Mass	April 2, 1841
Drawers	Henry Brewer James R. Williams	New York Baltimere, Md	Feb. 28, 1833 Mar. 3, 1824
Dresses, ladies', guide for cutting.	Hiram Seger	Macon, Ga	Jan. 28, 1946
Garments, for boys	Charles Herwick	New York	May 16, 1826
Garments, cutting	Allen Ward	Huntsville, Ala	
Garments, cutting	Ethan Campbell Levi P. Lemont	Philadelphia, Pa Bath, Me	Nov. 6, 1833 Jan. 9, 1829
Garments, cutting		Exeter, N. H.	July 11, 1837
Garments, cutting	David N. Sipperly	Troy, N. Y	July 8, 1843
Garments, cutting	Sylvanus B. Stilwell	Brooklyn, N.Y	June 20, 1845
Garments, cutting the bodies of coats in one piece	William M. Wiswell.	Portland, Mea	April·10, 1899
etrical measure for	William C. Bisheo	Ovid, N. Y	April 25, 1837
Glarments, draughting and cutting	James H. Chapple	. Chilicothe, Ohio	Jan. 18, 1834
Garments, draughting and cutting	William W. Allen	Philadelphia, Pa	Oct. 23, 1827
Garments, draughting fore past of coats.	Allen Ward	Moyamensing, Pa.	Sept. 28, 1837
Garments, fitting ladies' dresses.		Baldwin, Me	
Garments, instruments for measur	1	1	
ing the human body, &c.		New York, N. Y	April 26, 1839
Garments, marking out and cutting Garments, marking out and cutting		. Waterford, N. Y W. Whiteland tp., Pa	Sept. 3, 1831 Aug. 5, 1833
Garments, marking out and cutting		Mount Vernen, O	
Garments, measuring and cutting		Baltimore, Md	
	ional improvement. Pebru	}	1

*Additional improvement, February 18, 1846.

	<del></del>		
myentions or discoveries.	PATENTEES.	residence.	WHEN DEUED.
Garments, measuring and cutting.	James Henderson and		
,	Cooper K. Watson.	Zanesville, Ohio	Oct. 22, 1831
Garments, measuring and cutting.	James G. Wilson	New York	May 3, 1833
Garments, measuring and cutting.	Wm. Kahler & Charles		+ 00 1000
C	Kahler	Bloomsburg, Pa	Jan. 20, 1838
Garments, measuring and cutting. Garments, measuring and cutting.	Hiram Seger D. & L. Pendell	Macon, Ga Gilboa, N. Y	April 29, 1849 June 14, 1843
Garments, measuring and draught-	D. G. D. I Chach	Cinoca, III I	Juno 11, 10
ing	Isaiah J. Hendryx	Troy, N. Y	April 18, 1840
Garments, measuring the human	•	1	
body	Thomas E. Tilden	Baltimore, Md	Dec. 5, 1840
Garments, measuring and draught-	A A Manalan	Divitadalahia Da	T 09 1941
Ing	Aaron A. Tentler James Mendenhall	Philadelphia, Pa West Chester, Pa	Jan. 23, 1841
Garments, measuring for Garments, measuring for	C. W. M. Bacon	New York	
Garments, measuring for	Daniel Williams	New York	
Garments, measuring for	John S. Rockafellow .	Flemington, N. J	Sept. 18, 1835
Garments, measuring instruments		Middletown, N. Y.	Feb. 7, 1849
Garments, measuring instruments		Warrenton, Ga	May 26, 1842
Garments, measuring instruments			TI. 00 1949
Garments managing and marking	Jacob F. Knowland.	Boonsborough, Ky.	July 20, 1842
Garments, measuring and marking out coats	Allen Ward	Philadelphia, Pa	Jan. 7, 1835
Garments, pantaloons measurer	Edwin Grimston	Danvers, Mass	Sept. 21, 1837
Garments, pantaloons, straps for	Enos Wilder	Boston, Mass	Nov. 19, 1833
Garments, pockets of	Daniel Harrington	Philadelphia, Pa	Oct. 11, 1841
Garments, ruler, cutting out	Otis Madison	Troy, N. Y	Aug. 18, 1829
Garments, ruler, triangular mea-		Dhiladalahia Da	0 11 1990
Garments, scale for draughting	Allen Ward N. B. Starr	Philadelphia, Pa Philadelphia, Pa	Oct. 11, 1898 July 10, 1890
Garments, square for cutting	James G. Wilson		Feb. 28, 1827
Garments, standard measure for			
coats	Erastus Barber	Boston, Mass	Dec. 26, 1837
Garments, tailors' draughting in-	T33 T A63	Dhiladalahia Da	Mr. 20 1020
Garments, tailors' instruments for	Edward J. Axford	Filladelphia, Fa	Mar. 30, 1839
measuring	John P. Barnett and		1
	Francis Story		Nov. 12, 1839
Garments, tailors' instruments and			
mode of measuring	Lewis Flenner		Nov. 10, 1841
Garments, tailors' measures	Lyman B. and Ellery Miller	Wall Hill, N. Y	May 29, 1841
Garments, tailors' measuring in-		Want timi, Iv. I	May 25, 1012
struments		Lancaster, S. C	April 18, 1840
Garments, tailors' measures, con-	1 <u>_</u>	l	
structing	Richard Dame	Hanover, N. H	May 8, 1840
Garments, tailors' measure for		Columbus Ge	0 21 1935
Garments, tailors' square, deline		Columbus, Ga	Oct. 31, 1835
ating		Exeter, N. H	June 7, 1839
Garments, woollen	J. Foster and J. Ston	4	
	_ denburg	. Green county, N. Y.	April 20, 1830
Gloves, wafers, leather, for cutting		Paris, France	Jan. 26, 1825
Hat bodies		. Ware, Mass	
Hats, firemens'	James Brown R. Wildham	. Newark, N. J Hartford, Conn	
Hate, ventilating	George W. Cherry	, Alexandria, D. C	July 26, 1845
Flat, ventilating	Richard Halloran	. New York, N. Y	Mar. 21, 1846
Hats	Henry A. Wells	. New York, N. Y	April 25, 1846
Hone or strap, razor	William D. Boardman	Rensselaerville, N. Y	Jan. 20, 1843
Hooks and eyes for fastening gar	Elisha C. Savage	. Hartford, Conn	Mar. 26, 1844
ments	Charles Atwood	Derby, Ct	Feb. 24, 1843

INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHEN MOUED
INVENTIONS ON DISCOVERS.			
Moccasins, applying hat trim-			
mings to	James Jackson	Burlington, N. Y	April 1, 181
Moccasins, manufacturing	Alfred Tillotson	New York	
Moccasins manufacturing	Catharine Elliot	New York	Jan. 26, 182
Moccasins, manufacting in moulds	John J. Staples and Wm. H. Cornell	New York	Dec. 15, 182
Moccasins, manufacturing, water proof	John Syms	New York	Nov 10 189
Moccasins, socks	Denison Williams	New York	Oct. 24 18
Pocket book and watch safe	Joseph Colton	Amherst, Mass	April 18, 18
Razor case, portable	Harvey Wright	Bristol, Čt	Nov. 19, 18
Razor case, and sharpener	E. M. Pomeroy	Wallingsford, Ct	
Razor, sharpening, application of	William Child	Daleimana Md	Dec 15 19
adhesive slate		Baltimore, Md	Dec. 13, 16
Razor strap	Jona. Crumbacker John M. Fors	Union, Md Baltimore, Md	Oct. 2, 18
Razor strap	Jac. Houck	New Market, Md	Tan 94 189
Razor strap	John W. Osborn	Terre Haute, Ind	Jan. 21, 189
Razor strap	Gooding Halloway	Chester, Ohio	April 3, 18
Razor strap	Elisha M. Pomeroy	Wallingsford, Ct	Sept. 6, 18
Razor strap and case	Aaron & Luther Hill.	Stoneham, Mass	July 17, 18
Reticules	William Winning	New York	
Ruffles, plaiting	Sylvester W. Talbott.	Dedham, Mass	
selvage, double stitched	J'A. & E. Wadsworth	Portsmouth, R. I	Oct. 5, 18
Shears, flying	Seth Parsons	Hoosick Falls, N. Y.	June 7, 18
hears, tailors'	John Andrews, (ass'ee of Rochius Heinisch)		
Shears, tailors'	Rochius Heinisch	Newark, N. J	
Shears, tailors'	James G. Wilson, as-		1 00. 1., 10
	signee of Thomas		M 02 10
Theore toilous!	Hawkins	New York, N. Y	
Shears, tailors'* Shears, tailors'		New York, N. Y New York, N. Y	
Shears, tailors'			
Shell or horn, machine for cutting			
Skirts, ladies't	David Hough, jr		
Skirts, ladies'	Sewall Folsom		
Socks, Columbian	Joseph Mason		
Socks, moccasins	William Bolton		
Bocks, for over-shoes			
Springs, for belts, pantaloon straps, vestsi			
tock	Joseph Touson	Baltimore, Md	
Btock			
tock, composition hinge	G. R. Sillibridge	New York	
stock, frames of hair		New Haven cty., Ct	
Stock, gentlemen's plain and dress Stock, jubilee	Denison Williams	Albany, N. Y	
, Juonous	R. M. Kerrison		Aug. 30, 18
Stock, for the neck			
Stock, for the neck			
Stock, for the neck, metallic frame	ai .	1	1
for		New York	Inly 1 12
Stock, for the neck, shaping Stock, self-adjusting			
Suspender buckles			
Straps for pantaloons			
Straps, suspender, attaching to		Toomi, Maso	.,, 50, 10
pantaloons		New York	Sent. 4. 18
Suspenders, manufacturing			
Suspenders, manufacturing			
Suspenders, manufacturing			
Suspenders, manufacturing		Philadelphia. Pa	. Nov. 6. 18
	1.	Philadelphia, Pa	1 34 18 16

*Additional improvement June 2, 1845. † Released to O. M. McDaniel, assignee of Hunt, Nev. 16, 1839.

† Antedated June 8, 1846.

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	<del></del>	THE TOTAL CONTRACTOR	<del></del>
INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	WHEN ISSUED.
Suspenders, manufacturing	Henry Burke	Bucks county, Pa	May 25, 1811
Suspenders, manufacturing	Martin Nelson		Oct. 17, 1814
Suspenders, manufacturing	Joseph Barnett	Philadelphia, Pa	Sept. 14, 1816
Suspenders, manufacturing	Benjamin Wildes	Utica, N. Y	Aug. 19, 1826
Suspenders, manufacturing	Abm. L. Vanhorn	Philadelphia, Pa	Feb. 22, 1827
Suspenders, manufacturing	Edwin Chesterman	New York	June 19, 1827
Suspenders, manufacturing, dou-		110W 101R	Julie 13, 1021
ble spring	Benjamin Wolcott	Danbury, Ohio	May 29, 1811
Suspenders, manufacturing, gum			
elastic	Ransom Warner	New York city	
Suspenders, straps	Orange Webb	New York	
Suspenders, springs and cords	Allyn Bacon	Philadelphia, Pa	
Tailoring, art of	Greenberry Ross	Carlisle, Ky	
Tailoring, art of	Charles Kenrick	New York	
Tailoring, art of	Daniel Williams	New York, N. Y	May 22, 1833
Tailoring, art of	James Zwisler, jr	Hagerstown, Md	July 1, 1836
Tailoring, system of	Amos Sherman	Newark, N. J	July 17, 1837
Tailors' bench	Wm. Burtis	New Brunswick, N.J	Oct. 3, 1808
Tailors' measurers	Thomas Oliver	New York, N. Y	Mar. 30, 1843
Tailors' measurers	Cyrus Morey and D.	·	
<b>6</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hummer	Arthurston, Ohio	July 8, 18 <b>43</b>
Tailors' measurers	George Eckler and J. X. Ball	Flint Creek, N. Y	Sept. 28, 1843
Tailors' measures	Henry Isham	Montpelier, Vt	
Tailors' measures	John B. Combs	Trenton, N. J	
Tailors' measures	Abraham A. Bogardus		
Tailors' measures	Allen Ward	Camden, N. J	
Tailors' measures, system for cut-		,	200, 2010
ting coats	Wm. R. Acton	Richmond, Va	Sept. 5, 1846
Tailors' measures, system for mea-			20pm 0, 1010
suring and cutting garments	Henry Donges	Newport, Pa	April 25, 1846
Tailors' measures	Benj. G. Martin	Richmond, Va	Oct. 29, 1846
Tailors' measure for cutting coats		Nashville, Ohio	June 29, 1846
Tailors' shears	Isaac Jacques	Elizabethtown, N. J	Aug. 28, 1846
Umbrellas	Gilbert S. Ward	Newark, N. J	April 21, 1842
Umbrellas	Waring Latting	New York, N. Y	Nov. 21, 1843
Umbrella, manufacturing	William Gamble	Washington, D. C.	July 3, 1824
Umbrellas and parasols	Elisha Hale	Newburg, N. Y	Dec. 28, 1839
Umbrella and parasol, manufac-		riowoulg, rii riii.	Dec. 20, 1005
turing	William Sleeper	Philadelphia, Pa	Nov. 22, 1826
Umbrella stand, design	Wm. L. Miller	New York	Sept. 13, 1845
Umbrella, water proof	Edwin L. Simpson	Roxbury, Mass	Nov. 19, 1834
Vests stiffner, spring for	James G. Shute	Boston, Mass	Dec. 5, 1827
Wigs		Baltimore, Md	Sept. 17, 1842
Wigs	William Dowell		Dec. 12, 1842
Wigs, metallic	François Bourguet	New York	Mar. 8, 1840

* Reissued August 31, 1839.

† Antedated June 28, 1839.

CLASS No. XXII.

MISCELLANEOUS.

## LIST OF PATENTS.

## CLASS XXII.—MISCELLANEOUS.

INVENTIONS OR DISCOVERIES.	PATENTEES.	residence.	when issued.
Arithmetic, new mode of teaching	B. M. Van Der Veer.	Clyde, N. Y	July 14, 1846
Awnings, improvement in	John Sebo	Wilmington, Del	May 25, 1844
Band-boxes, machine for cutting	Benj. Mestayer	New York	Nov. 13, 1821
Baskets for catching fish	John Downs	Belleport, N. Y	April 25, 1843
Bomb lance	Oliver Allen	Norwich, Conn	Sept. 19, 1846
Bottles, washing, filling, & cork'g		New York	Nov. 8, 1828
Boxes, marking	E. Wilson, assignee of		
7	J. C. Walker	Concord, N. H	Aug. 26, 1843
Boxes, removing square and other	Girl D Williams	A3 O	E-L 4 1049
prismatic	Steph. D. Williamson		Feb. 4, 1843
Box-trap for catching animals	J. Stroon & J. Esteale		Nov. 6, 1843
Caoutchouc, cutting into shreds	Wm. Atkinson	New York	Oct. 6, 1835
Cane coverers	John P. Bryan	Princeton, Ky	June 24, 1843
Chickens, hatching, by artificial			36 00 1040
heat	Napoleon E. Guerin	New York, N. Y	Mar. 30, 1843
Cigars, machine for making	Hosea Peirce	Winchester, N. H	Dec. 10, 1846
Cigars, making	Jonathan Ball	Buffalo, N. Y	Oct. 12, 1842
Coal-breaker	Benj. Haywood	Pottsville, Pa	May 21, 1845
Coal-breaker	Wm. Richardson	Philadelphia, Pa	Sept. 2, 1845
Cocoanut cutter	Dan. Fitzgerald	New York	Dec. 22, 1831
Coffins, of artificial stone or mar-			
_ ble	John White	New York	
Coffins, from hydraulic cement			
Coffins, from hydraulic cement	John White	New York	
Coffins, lodgements in		New York	
Coffins, metallic	James A. Gray	Richmond, Va	June 11, 1836
Coffins, used in cases of doubtful			
death	C. H. Eisenbrandt	Baltimore, Md	Nov. 15, 1843
Combs, machine for dressing	Calvin R. Rogers	Saybrook, Ct	Dec. 20, 1845
Corn husks, slitting, for mattresses		Baltimore, Md	April 21, 1836
Corpse preserver, design for	John Good	Philadelphia, Pa	Aug. 17, 1836
Cushion, for billiard tables	Abrm. Basford	New York	July 20, 1831
Dead bodies, preserving*	Frederick & Trump	Baltimore, Md	May 9, 1846
Ducks, mode of catching	Wm. Coffield	Norfolk	
Fencing	Richard Weems	Maryland	
Fencing, of clay posts	William Cooley		
Fencing grounds	Othello Church	Friendship, N. Y	July 23, 1823
Fencing, repairing	Edward Pitkins		
Fire escape			
Fire escape	Wm. P. Withey S. Welsh & T. Lina-		May 12, 1840
z zo ocoaperiti i i i i i i i i i i i i i i i i i i	1	A 11 BT 37	Jan. 23, 1841
Fire ladders	Morton B. Hill		
Fish, catching			
Fish, catching			
Fish, catching			
Fish, mode of carrying in warm			July 20, 1000
weather	Nathaniel Robbins		Mar. 11, 1802
Flies, killing	Aw. Glendenning	Loudoun co., Va	Sept. 9, 1824
Fly, driver	R. H. Fauntleroy	New Harmony, Ia.	Aug. 13, 1834
Harpoons	Holmes & West	Tisbury, Mass	.  Nov. 24, 1846
Harpoons	Chas. Randall	Palmyra, Ga	Dec. 3, 1846
	,		,

INVENTIONS OR DISCOVERIES.	PATENTEES.	RESIDENCE.	WHEN ISSUED.
Horses and cattle, mode of break-			
	David Cooley, jr	Orange co., N. Y	June 23, 1810
Horses' ears, mode of setting	Seth Janes		Dec. 31, 1804
Horses, machine for stopping	Peter Laporte	Louisa county, Va	Mar. 20, 1821
Horses, mode of improving the		,	
shape of	Aaron Carman	Hyde Park, N. Y	Nov. 27, 1828
Horses' tails, hold'g up after nick'g	Gibbons Gray	Westchester, Pa	July 31, 1846
Horses, training and breaking	Townsend Cook	New York	Mar. 1, 1811
Hurdle, for rearing silk worms	Gamaliel Gay	Poughkeepsie, Ct	Oct. 6, 1838
Ice, accumulating	John Dutton	Aston, Pa	May 8, 1843
Ice, cars and receiving platforms			
for removing blocks of	Nat. J. W veth	Cambridge, Mass	Oct. 25, 1843
Ice cutters and markers	Nat. J. Wyeth	Cambridge, Mass	Oct. 25, 1843
Ice, cutting	Nat. J. Wyeth	Cambridge, Mass	Dec. 1, 1840
Ice, forming	T. B. Smith	St. Louis, Mo	Jan. 23, 1841
Ice, improvement in accumulating	John Dutton	Aston, Pa	Aug. 18, 1846
Ice, machinery for cutting	Blount & Campbell	Osterville, Mass	Aug. 26, 1846
Ice, machinery for elevating blocks	Nat. J. Wyeth	Cambridge, Mass	Nov. 6, 1843
Ice, machinery for reducing blocks	No. 7 Tilland	Combaides Man	Dec 1 1940
to uniform thickness	Nat. J. Wyeth	Cambridge, Mass	Dec. 1, 1840
Ice, machinery for raising blocks	!		
of, from the water-side and pla-	Nat. J. Wyeth	Cambridge Mage	Dec. 1, 1840
cing in sleds	Man J. Wyem	Cambridge, Mass	Dec. 1, 1840
Ice, machinery for raising blocks	Nat. J. Wyeth	Cambridge, Mass	Dec. 10, 1840
of, &c., depositing in storehouse	rac. J. W year	Cambridge, mass	Dec. 10, 1010
Ice, machinery for raising blocks	Nat. J. Wyeth	Cambridge, Mass	Dec. 10, 1841
Of of outting	Nat. J. Wyeth	Cambridge, Mass	Mar. 18, 1829
Ice, manner of cutting Ice, mode of obtaining and secur'g	Jos. E. Manuel	Philadelphia, Pa	July 12, 1839
Ice, packing and stowing	Fred. Sudor		May 4, 1838
Ice, preparing for shipping	Nat. J. Wyeth		Dec. 1, 1837
Ice preserver, portable	Enoch Powers		Aug. 28, 1821
India rubber, cutting, (see Chemi		·	
cals, class 4, pages 101, 109	H. G. Tyler & J. Helm	N. Brunswick, N. J.	Oct. 9, 1844
India rubber fabrics	Charles Goodyear	New York	Mar. 9, 1844
India rubber fabrics	Charles Goodyear	New York	Mar. 9, 1844
India rubber fabrics	Charles Goodyear	New York	June 15, 1844
India rubber goods, corrugated and	** ** **	T 0': 37 T	0.4 10 1044
shurred*	Horace H. Day		Oct. 12, 1844
Ivory, vice slitting	Philo Pratt		Feb. 12, 1828
Knives, handles for	Zina K. Murdock		April 16, 1841
Ladder, conflagration	Bennet Lies		June 20, 1815 Aug. 9, 1826
Ladder, fire	Samuel Lehman James L. Hannah		Aug. 19, 1834
Ladder, fire	James Cox		June 27, 1846
Ladder, fire-escape	Jas. Johnson	Baltimore, Md	April 18, 1831
Ladder, life-escape and fire	A. Fessenden and L.		11pm 10, 2002
Match splints and arranging	L. Knight.	Mass	April 26, 1845
Mail and travelling bags, India		3.2	
rubber	Edw. M. Chaffee	Boston, Mass	Dec. 31, 1833
Mil!, floating and silent fisher	Eb. Ford		Dec. 21, 1809
Net for catching fish	James Drummond		Aug. 27, 1818
Net for catching mackerel	Benj. W. Hale		June 4, 1838
Net gill, for catching fish	Harris Cook	Haddam, Mass	Mar. 17, 1843
Orretor platform	John Freeland	New York	April 29, 1828
Palm-leaf, machine for splitting Palm-leaf, machine for splitting	Corey McFarland	Barre, Mass	Mar. 31, 1841
Palm-leaf, machine for splitting	Chas. Wadsworth	Barre, Me	Nov. 17, 1834
Palm-leaf, machine for splitting Pills, mode of counting	Chas. Wadsworth	Barre, Me	Dec. 23, 1834
Pills, mode of counting	J. P. Peters	New York, N. Y	June 27, 1839
Pole, life, and fire engine assistant	Wm. W. Vanloan	Catskill, N. Y	Feb. 2, 1822
Pole, life, and fire engine assistant Pulleys, improvement i	John Simpson	Decatur, Ga	July 7, 1846
Rat trap	Levi Kittinger	East Greenville, O.	May 8, 1846
Rat trap	Jas. W. Carter	Moston, Mass	NOV 12, 1546
Reconductor	John Sargeant	vernon, IN. Y	April 23, 1516

INVENTIONS OR DISCOVERIES.	PATENTEES.	Residence.	WREN MEURD.
Saving oil in machinery	Devlan, Hancock and		
•	_ Wood	Philadelphia, Pa	Aug. 8, 1846
Scalding hogs by steam	T. J. Goodman	Baltimore, Md	Feb. 13, 1835
Seine, fishing	Philip Groff	Little York, Pa	Dec. 16, 1809
Seine, fishing	Samuel May	Columbia, Pa	Jan. 11, 1812
Seine, fishing	Russel Evarts	Madison, Ct	Mar. 21, 1838
Seine, fishing	Cyrus Tracy	Savannah, Ga	Sept. 19, 1838
Seines, knitting	J. D. Cornelius and J. Mott	Westerly, N. Y	May 10, 1845
Splints, for baskets	Jos. L. Borden	Shrewsbury, N. J	June 29, 1833
Splints, for friction matches	Stephen Dole	Concord, N. H	May 30, 1837
Stencil plate, apparatus for mark-			
ing boxes	Edwin Allen	Windham, Ct	Sept. 4, 1840
Streets, sweeping	Levi Kidder	New York	Sept. 20, 1833
Sugar breaking	James Mitchell	Philadelphia, Pa	Sept. 11, 1822
Sugar breaking	Wm. G. Sterling	Bridgeport, Ct	Jan. 28, 1829
Sun-flower leaves and rhubarb			
plants, as a substitute for smok-			
ing tobacco and for the forma-	Wm. D. Groff	Marietta, Pa	Jan. 8, 1839
tion of segars	Jas. H. Dakin	New Orleans, La	May 30, 1842
Tents, portable, insect		itew Officalis, Lia	May 50, 1042
	Joseph Maffet	Lancaster	May 16, 1832
Tobacco, cutting knife	James J. Mapes	New York	Jan. 22, 1831
Tobacco, cutting, machine for	Apollos Kinsley	Connecticut	Aug. 12, 1797
Tobacco, cutting, machine for	Peter Lorillard	New York	June 28, 1800
Tobacco, cutting, spun	A. Johnson, ass'ee of	· i	
, 5, 1	James Martin	Petersburg, Va	Nov. 19, 1833
Tobacco leaves, straightening	G. W. Macon	Louisburgh, Va	April 18, 1846
Tobacco, machine for rolling	W. P. Marston	Danville, Va	April 25, 1846
Tobacco, manufacturing	J. Caldwell & C. Bat-	A 11 37 37	T 00 1500
Tohana manufasturing	terman	Albany, N. Y New York	June 26, 1793 April 25, 1810
Tobacco, manufacturing Tobacco, manufacturing	Peter Lorillard Jno. Allen, jr., and C.	TIEM TOTA	April 20, 1010
1 obacco, manufacturing	Geoghegan	Richmond, Va	April 3, 1827
Tobacco, manufacturing	Chas. Geoghegan and		o, 1021
	Jas. Allen, jr	Richmond, Va	Dec. 6, 1831
Tobacco, manufacturing	Jno. B. Rappelyea and		
, -	Joel Barns	Covington, Ct	Nov. 19, 1833
Tobacco, manufacturing, chewing	l		
(called Roanoke leaf)	Edw. Chassaing	Baltimore, Md	Mar. 24, 1835
Tobacco, manufacturing, by ma-	7 34	D 1	A 15 1004
chinery	James Mansey	Petersburg, Va	Aug. 15, 1834
Tobacco, snuff-cutter or grater	J. B. Partarrien	New York	Nov. 30, 1812
Tobacco, spinning	A. Johnson, (assignee of James Martin)	Petersburg, Va	Nov. 19, 1833
Tobacco, spinning	Hiram M. Smith	Richmond, Va	Dec. 20, 1837
Tobacco, spinning spool for	S. and E. Hardy	Kennebec, Me	
Tobacco, spinning and turning of			
wheel	John Eagles	Newark, N. J	April 8, 1812
Tobacco, stemming	Germain Bréant	Richmond, Va	
Tobacco, tables for drying cut	Geo. Campbell	Schenectady, N. Y	Jan. 7, 1829
Tobacco, twisting	John J. Heriges	Philadelphia, Pa	
Traps, for animals	Henry Adams	Erie county, Pa	
Trap for catching animals	William Biddle	Pittsburg, Pa	July 12, 1839
Trap for catching animals	Thomas Shailer	Haddam, Ct	May 10, 1844
Traps for rats	Thomas Neill	Herkersville, O	Jan. 23, 1836
Traps for rats	Thos. Kell	Alexandria, D. C	Mar. 3, 1838
Traps for rats	Ebenezer Oliver	Philadelphia, Pa New York	Oct. 22, 1842 Nov. 12, 1845
Whale blubber, mincing	Thaddeus Hyatt G. W. Soule and W.	TION TOTAL	1104. 12, 1040
TT IIIIO DIUDOOI, HIIIIOME	Carsley	New Bedford, Mass.	Oct. 6, 1843
Whips, raw hide, finishing		Philadelphia, Pa	Dec. 28, 1846
Whips, twisted, whalebone		Newburg, N. Y	
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^{*}Reiseued August 10, 1833.

## INDEX.

PATRNTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Abbe, Alanson	Corslets for curved spines	20	34
Abbe, Alanson	Corsets	21	35
Abbet, Henry	Rolling iron	2	5
Abbet, Henry	Stoves	5	13
Abbet, Henry	Stove cooking, boiling	5	14
Abbet, Henry	Stoves, coal	5	13
Abbey, Roswell	Hulling coffee	i	1
Abbott, Andrew	Stove, cooking	5	13
Abbott, John	Paving, wood	9	19
Abbott, John	Water power to lever beam	11	22
Abbott, John	Horse power	13	25
Abbott, Miles H	Saw mills	14	27
Abbott, Sam. and J. Prentiss	Window curtain and bed	17	31
Abbott, Theodore T	Knobs, glass	2	4
Abbott, Theodore T	Spinning wool, cotton, &c	3	9
Ablon, Eugene, assignee of Pierre Ravard	Raising water	11	22
Aborn, John	Candles, dipping	4	10
Aborn, John	Candles, dipping machine	1	10
Abraham, James	Kiln for grain	5	13
Achey, Samuel	Flax swingling	3	7
Achman, John	Engine, fire	11	22
Ackerman, Gershom L	Wheels for carriages	10	21
Acoff, John	Smoke, consuming	5	13
Acton, W. R	Tailor's measures	21	35
Adair, William	Truss for hernia		34
Adams, Amos	Smut machine		2
Adams, Amos	Horse power		25
Adams, Benjamin F	Cordage, manufacture of	7	17
Adams, Benjamin F	Steering vessels	7	17
Adams, Benjamin F	Quadrant, horizontal wheels		18
Adams, Charles	Bedstead, windlass	17	30
Adams, Charles	Chairs and sofas	17	31
Adams, Daniel	Stirrups		6
Adams, David	Carding wool	3	6
Adams, E. G	Glazed leather		29
Adams, Elizabeth	Corsets worn in pregnancy	10	35
Adams, Henry	Traps for animals	21 \ 22	35
Adams, Isaac	Hulling coffee berry	22	1
Adams, Isaac	Steam engine, cutting off steam		15
Adams, Isaac	Printing press, power	6	32
Adams, Isaac	Printing press, power	18	32
dams, John	Store cooking	18	13
Adams, John J	Stove, cooking	5	31
Adams, John J	Glass flattening	17	28
Adams, John J	Glass flattening	15	28
Adams, Joseph	Flower note	15	28
Adams, Joseph	Flower pots	15	20 29
Adams, Jos. W. ass'or to Lewis & Clapp.	Bedstead	16	
Adams, Lemuel		17	30
Adams, Lemuel	Comba cutting tooth	1	0=
dams, Nathaniel	Combs, cutting teeth	21	35
Adams, Nathaniel	Thrashing machine	1	3
dams, Nathaniel		.9	19
Idams, Nathaniel		15 15	28

Adams, Nathaniel         Brick moulding.         15           Adams, Nathaniel         Brick, burning.         15           Adams, Paul         Brick, burning.         15           Adams, Rufus W         Condensing box for wooden still.         4           Adams, Rufus W         Condensing box for wooden still.         4           Adams, Samuel         Grist mill.         13           Adams, Samuel         Blacking for leather         4           Adams, Samuel         Pump, preventing freezing.         11           Adams, Samuel         Printing freezing.         12           Adams, Seth         Windlass, ship's         12           Adams, Seth         Printing press.         18           Adams, Stedman         Distilling still and steam engine.         4           Adams, Thomas F         Printing in colors         18           Adams, William         Winnowing wheat         1           Adams & Hammond, ass'ees of A. Hammond         Windlass, ship's         12           Adamson, John         Docks, floating dry         9           Addison, George and L. S. Stevens         Spinning silk         3           Addison, Thomas         Pencil-case and pen         18           Addle, Cornelius         Bleeding h	
Adams, Nathaniel         Clay tempering         15           Adams, Nathaniel and A. Noyes         Brick, burning         15           Adams, Paul         Trees, fruit, preventing destruction         1           Adams, Rufus W         Condensing box for wooden still         4           Adams, Samuel         Cutting grain         1           Adams, Samuel         Blacking for leather         4           Adams, Samuel         Pump, preventing freezing         11           Adams, Samuel         Windlass, ship's         12           Adams, Seth         Windlass, ship's         12           Adams, Seth         Printing press         18           Adams, Stedman         Distilling still and steam engine         4           Adams, William         Grist mill         13           Adams, William         Winnowing wheat         1           Adams, William and Mar         Casks         14           Adams & Hammond, ass'ees of A. Hammond         Windlass, ship's         12           Adamson, John         Docks, floating dry         9           Addison, George and L. S. Stevens         Spinning silk         3           Addison, Thomas         Pencil-case and pen         18	285 34 103 299 11 100 227 234 246 326 327 106 326 325 327 326
Adams, Nathaniel and A. Noyes       Brick, burning.       15         Adams, Paul       Trees, fruit, preventing destruction.       1         Adams, Rufus W       Condensing box for wooden still.       4         Adams, Samuel       Cutting grain.       1         Adams, Samuel       Blacking for leather       4         Adams, Samuel       Pump, preventing freezing.       11         Adams, Samuel       Pump, preventing freezing.       12         Adams, Seth       Windlass, ship's       12         Adams, Seth       Printing press.       18         Adams, Seth       Printing press, Faustus       18         Adams, Stedman       Distilling still and steam engine       4         Adams, Washington       Grist mill       13         Adams, William       Winnowing wheat       1         Adams & Hammond, ass'ees of A. Hammond       Windlass, ship's       12         Adamson, John       Docks, floating dry       9         Addison, George and L. S. Stevens       Spinning sills       3         Addison, Thomas       Pencil-case and pen       18	34 103 299 11 100 227 234 246 326 329 327 106 326 326 326 326 326 326 326 326 326 32
Adams, Rufus W.         Condensing box for wooden still.         4           Adams, Rufus W.         Grist mill.         13           Adams, Samuel.         Lutting grain.         1           Adams, Samuel.         Blacking for leather.         4           Adams, Samuel.         Pince arms.         19           Adams, Seth.         Windlass, ship's.         12           Adams, Seth.         Printing press.         18           Adams, Seth.         Printing press.         18           Adams, Thomas F.         Printing still and steam engine.         4           Adams, Washington.         Grist mill.         13           Adams, William         Winnowing wheat.         1           Adams & Hammond, ass'ees of A. Hammond         Windlass, ship's.         12           Adamson, John         Docks, floating dry.         9           Addison, George and L. S. Stevens.         Spinning silk.         3           Addison, Thomas.         Pencil-case and pen.         18	103 293 11 106 227 234 246 328 327 106 326 253
Adams, Rufus W.         Condensing box for wooden still.         4           Adams, Rufus W.         Grist mill.         13           Adams, Samuel.         Lutting grain.         1           Adams, Samuel.         Blacking for leather.         4           Adams, Samuel.         Pince arms.         19           Adams, Seth.         Windlass, ship's.         12           Adams, Seth.         Printing press.         18           Adams, Seth.         Printing press.         18           Adams, Thomas F.         Printing still and steam engine.         4           Adams, Washington.         Grist mill.         13           Adams, William         Winnowing wheat.         1           Adams & Hammond, ass'ees of A. Hammond         Windlass, ship's.         12           Adamson, John         Docks, floating dry.         9           Addison, George and L. S. Stevens.         Spinning silk.         3           Addison, Thomas.         Pencil-case and pen.         18	2%2 11 100 227 234 246 328 327 106 326 253
Adams, Samuel	11 106 227 234 246 326 327 106 326 253
Adams, Samuel	106 227 234 246 328 327 106 326 253
Adams, Samuel	106 227 234 246 326 327 106 326 253
Adams, Samuel.       Fire arms.       19         Adams, Seth.       Windlass, ship's.       12         Adams, Seth.       Printing press.       18         Adams, Stedman.       Distilling still and steam engine.       4         Adams, Thomas F.       Printing press, Faustus.       18         Adams, Washington.       Printing in colors.       18         Adams, William       Winnowing wheat.       1         Adams, William and Mar.       Casks.       14         Adams & Hammond, ass'ees of A. Hammond       Windlass, ship's.       12         Adamson, John       Docks, floating dry.       9         Addison, George and L. S. Stevens.       Spinning silk.       3         Addison, Thomas.       Pencil-case and pen.       18	234 246 326 327 106 326 253
Adams, Samuel.       Fire arms.       19         Adams, Seth.       Windlass, ship's.       12         Adams, Seth.       Printing press.       18         Adams, Stedman.       Distilling still and steam engine.       4         Adams, Thomas F.       Printing press, Faustus.       18         Adams, Washington.       Printing in colors.       18         Adams, William       Winnowing wheat.       1         Adams, William and Mar.       Casks.       14         Adams & Hammond, ass'ees of A. Hammond       Windlass, ship's.       12         Adamson, John       Docks, floating dry.       9         Addison, George and L. S. Stevens.       Spinning silk.       3         Addison, Thomas.       Pencil-case and pen.       18	246 328 327 106 326 253 36
Adams, Seth	326 327 106 326 253 36
Adams, Seth	327 106 326 253 36
Adams, Stedman       Distilling still and steam engine       4         Adams, Thomas F       Printing in colors       18         Adams, Washington       Grist mill       13         Adams, William       Winnowing wheat       1         Adams & Hammond, ass'ees of A. Hammond       Windlass, ship's       12         Adamson, John       Docks, floating dry       9         Addison, George and L. S. Stevens       Spinning sills       3         Addison, Thomas       Pencil-case and pen       18	106 326 253 36
Adams, Stedman       Distilling still and steam engine       4         Adams, Thomas F       Printing in colors       18         Adams, Washington       Grist mill       13         Adams, William       Winnowing wheat       1         Adams & Hammond, ass'ees of A. Hammond       Windlass, ship's       12         Adamson, John       Docks, floating dry       9         Addison, George and L. S. Stevens       Spinning sills       3         Addison, Thomas       Pencil-case and pen       18	326 253 36
Adams, Washington.       Grist mill.       13         Adams, William and Mar.       Winnowing wheat.       1         Adams & Hammond, ass'ees of A. Hammond.       Casks.       14         Adamson, John.       Windlass, ship's.       12         Addison, Amos.       Docks, floating dry.       9         Addison, George and L. S. Stevens.       Spinning silk.       3         Addison. Thomas.       Pencil-case and pen.       18	253 36
Adams & Hammond, ass'ees of A. Hammond       Windlass, ship's       12         Adamson, John       Docks, floating dry       9         Addison, George and L. S. Stevens       Spinning silk       3         Addison, Thomas       Pencil-case and pen       18	36
Adams & Hammond, ass'ees of A. Hammond       Windlass, ship's       12         Adamson, John       Docks, floating dry       9         Addison, George and L. S. Stevens       Spinning silk       3         Addison, Thomas       Pencil-case and pen       18	36 267
Adams & Hammond, ass'ees of A. Hammond       Windlass, ship's       12         Adamson, John       Docks, floating dry       9         Addison, George and L. S. Stevens       Spinning silk       3         Addison, Thomas       Pencil-case and pen       18	267
Adams & Hammond, ass'ees of A. Hammond       Windlass, ship's       12         Adamson, John       Docks, floating dry       9         Addison, George and L. S. Stevens       Spinming silk       3         Addison, Thomas       Pencil-case and pen       18	
Adamson, John       Docks, floating dry       9         Addis, Amos       Dams, chutes for       9         Addison, George and L. S. Stevens       Spinning silk       3         Addison, Thomas       Pencil-case and pen       18	
Addis, Amos	246
Addison, George and L. S. Stevens Spinning silk 9 Addison, Thomas Pencil-case and pen 18	193
Addison. Thomas Pencil-case and pen 18	193
Addison. Thomas Pencil-case and pen 18	92
Addle Corneline Reading horses instrument	324
*printed Controllings ** * * * * * * * * * * * * * * * * *	341
Addle, Cornelius	343
Adkins, Lorenzo Dow Water wheel, spiral bucket 11	234
Ahrens, Adolph F	342
Ahrens, Adolph F Truss 20	344
Aiken, Herrick Awls, sockets, &c 2	39
Aiken, Herrick Saw set 2	57
Aiken, Herrick Saw set	57
Aiken, Herrick	60
Aiken, Herrick Excavating ditches 9	195
Aiken, Herrick Harness, hames, carriage 16	296
Aiken, Herrick	301
Aiken, Herrick	301
Aiken, Herrick Brush, cloth and hair	349
Aiken, J. M Distilling 4	104
Aikens, William H Ovens 5	134
Aimes, Oliver	62
Aimes, Oliver	59
Aimes, Oliver	62
Ainsworth, Calvin	313
Ainsworth, Reuben Pearl ash, making without ovens	113
Akin, Aaron H	279
Akin, John D Steam engine packing 6	161
Akin, John D	200
Akin, William H Flour and meal bolting	251
Alber, John W Distilling 4	104
Albert, Dominique F Soap manufacturing 4	116
Albrecht, C. F. L	325
Albro, James, jr., (design)	69
Albro, James, jr., (design) Floor cloths, printing	69
Albro, James, jr., (design) Floor cloth, printing	69
Albro, James, jr., (design) Floor cloth, printing	69
Aldebert, Joseph G Power propelling mills	260
Alden, Albert	324
Alden, Enoch	226
Alden, Manoah and Wm. T. Boyd Excavator and cart	196
Alden, Timothy	324 115
Alden, Timothy.         Pens, metallic.         18           Alden, Timothy, jr.         Salt manufacturing.         4           Aldrich, Elisha F.         Constructing steam vessels.         7	

PATRIK <b>PROG</b> .	· ENVENTIONS OR DISCOVERIES.	CLASS.	PAGI
ldrich, Elisha F	Propelling boats and ships	7	1
ldrich, Elisha F	Inclined plane railroad	9	1
Idrich, John F. and Otis C. Foote	Washing machine	17	3
lexander, Henry	Grinding ores	2	
lexander, Henry	Paint and colors, preparing	4	1
lgar, George and Major	Crimping leather	16	2
alger, Charles C	Furnace blast, smelting	2	
lger, Cyrus	Plough, cast iron, malleable	1	1
lger, Cyrus	Hinges, cast iron	2	1 .
lger, Cyrus	Rollers for iron casting	2	
lger, Cyrus	Blocks, sheaves of	7	1
lger, Cyrus	Cannon, cast iron	19	3
lger, G. M. and J. A	Stone, cutting and dressing	15	2
llaben, Orson M	Fractures for cure of	20	3
llaire, James P	Boilers, steam	6	1
llan, William K	Plough, adjusting	1	)
llcott, William W	Seed, grain, drying	1	ł
llen, Adza	Hoe	1	
llen, Adolphus		1	1
llen, Adolphus		11	2
llen, Adolphus		11	2
llen, Amos D or B	Composition for tables	4	1
llen, Amos D	Composition for tables	18	3
llen, Amos D. and A. Kelsey		3	l
llen, Amos D	Hats, chip	3	
llen, Augustus C	Preserving meat	4	1
llen, Charles S	Pendulum machine	10	1
llen, D. R	Press, hay	12	2
llen, Edwin	Stencil plate	22	3
llen, Eleazer		12	2
llen, Ethan		18	3
llen, Ethan	Locks for fire arms	19	3
llen, Ethan	Fire arms, locks, constructing	19	3
llen, Ethan	Pistols	19	3
llen, Granville D	Press, tobacco, cases	12	2
llen, Henry		1	1
llen, Henryllen, Henryllen, Henry	Seeding, cotton planter	1	
llen, Henry	Water wheel	111	2
llen, Herman		11	2
llen, Horatio	Planing machine	14	2
llen, Horatio		. 2	1
llen, Horatio		6	i
llen, Horatio		11	2
llen, Horatio		11	2
llen, Horatio		ii	2
llen, John		5.	î
llen, John	Teeth setting	20	3
llen, J. B	Packing tobacco, box for	12	2
llen, John P	Veneers, sawing	14	2
llen, John P	Bedstead fastening, rails		3
llen, John P	Bedstead. sofa	17	3
llen, J., jr., and C. Geoghegan		22	3
llen, J., jr., and C. Geoghegan	Tobacco manufacturing	22	3
llen, Oliver		6	1
llen, Oliver	Dredging machine	•	î
llen. Oliver	Excavator	9	li
llen, Oliver	Bomb lance	22	j ĝ
llen, Otis	: Oakum picking	3	
llen. Phineas	Press. cheese	12	2
llen, S. W	Pump, double piston	11	2
llen, Samuel S	Hulling corn	· 1	1

Paten <b>per</b>	İ	MEVENTIONS OR DISCOVERIES.	LASS.	PAGE
Harr Comment O		Phhi mashina	•	
tlen, Samuel S		Thrashing machine	1	
llen Comuel S	F	Jorse power	13 13	25 25
llan Samuel S		Horse power	13	25
Hen Simons		Horse power, portable		3
Han Drambag A		Combs, cutting	21	15
Hen Stephen M.		Change of the	5 5	13
Hen Tiepnen M.		Stoves, air tight	2	
nen, Timothy		Rivets for coopers	2	
llen, I mothy		Slitting mill	3	
Hen, Warren		Spinning machine		3
llen, William W llen, William H. (U. S. N.)		Garment cutting	21	
Hen William H. (U. S. N.)		Rigging to mast-heads	7	1 1
llen, William H. and James Slo		Stove, cook	5	1
llen, Zachariah	• • • • • • • • • • •	Cloth, dressing, &c	3	
llen, Zachariah		Winding, spooling wool	3	١.
llen, Zachariah		Steam engine operating	6	1
llen, Zachariah		Napping cloth	3	l
llen, Zachariah		Napping cloth	3	
lley, Abijah		Bee hive and bees	1	1
lley, John, sen'r	••••••	Axes	2	1
llison, Burgess	•••••	Spinning machine	8	1
llison, Burgess		Spinning machine	3	i
llison, Burgess.		Spinning machine	3	
llison, Burgess		Distilling from corn stalks	4	1
llison, Burgess		Stoves	5	1
llison, Burgess		Rectifying spirits	4	1
llison, Burgess		Rectifying spirits	4	1
llison, Burgess and William Ell		Printing by means of rollers	18	1 3
llison, Burgess and Richard Fre		Nails and spikes	2	1
		Paper from corn husks	3	1
llison, Nathaniel S. and Benj. I	Lugler	Acid, vegetable	4	1
llison, Richard and N. S		Match lights and boxes	4	1
llison, Peter and William C		Axles, railroad cars	10	9
lrich, Jacob		Latches, door	2	1
dricks, Jacob.		Spinning machine	3	1
dsop, Charles R		Water, elevating	10	!
dsop, Charles R.		steam engine, rotary	6	1 :
llsop, George M.		Steam engine, rotary	6	
Itason, Thomas		Plough, cast iron	1	
Illurne, Lawrence		Color for painting	4	1 :
lverson, Peter.		Bumpers, railroad cars	10	1 :
Iverson, Peter.		Lock, spring, coach doors	10	1 :
dvord, E. and N.		Lathe	14	
Illyn, Edwin and C. B. Hildret		Cordage, preserving	3	1
mbler, Enoch.		Cutting grain, &c	1	ļ
mbler, James		Raising water by steam	11	1
mbler, John, jr		Mineral water, soda apparatus	4	İ
mbler, John		Saw mills	14	1
mbler, John, ir		Water wheel, reacting	11	
mbler, John, jr.		Lock, percussion lever	19	1
impler, John, jr., and D. C. Am	ibler	Grist mill		1
mbler, John, jr, and D. C. Am	bler	Grist mill, pressure	13	
melung, H. A.	• • • • • • • •	Lard, preparing	4	1
Imes, Benjamin		Ovens, reflecting	5	1
lmes, John	• • • • • • •	Paper cutting in ream	3	1
mes, John		Paper cutting in sheets	3	1
mes, John		Paper machine	5 3 3 3 3	1
Imes, John.		Paper making	3	1
Imes, John		Paper making, ruling, and cutting	3	1
Ames, John		Paper sizing	3	1
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s				4
Ames, John		Paper sizing	3	!
Ames, John		Paper sizing	3	!

PATENTERQ.	inventions or discoveries.	CLASS.	PAGE.
Ames, D., jr., and John Ames, assignees			
of Samuel Eckstein	Rags, washing	3	87
Ames, Michael and Jonathan Wright	Thrashing machine	11	3
Ammon, Jacob	Water wheel letting on water	11	233
signees of William A. Burke	Dying yarn	4	10
Amsden, Amory	Cargoes ascertaining weight	12	24
Amsden, Amory		14	28
Anderson, Alexander	Spindle, mode of steadying	3	8
Anderson, Alexander	Brewing from Indian corn	4	100
Anderson, Alexander		4	18
Anderson, Alexander		4	10
Anderson, Alexander	Steam engine	6	15
Anderson, Alexander	Propelling boats and vessels	7	17
Anderson, Henry P. and Josiah Sawyer.	Hinges, butt	2	4
Anderson, J. J	Stove, cooking	5	14
Anderson, John F	Grist mill	13	25
Anderson, Levi and David		2	4
Anderson, Levi	Files, cutting	2	4
Anderson, Levi		17	31
Anderson, Thos A	Cutting grass	î	li
Anderson, Thomas K.	Cooking apparatus	5	12
Anderson, Thos. A	Water power, economy of	11	29
Abderson, william	. Grates, partor	5	15
Anderson, William S	. Bedstead sacking, stretching	17	30
Andrews, Amasa		14	27
Andrews, Anson		14	27
Andrews, Anson	Saw mill dogs	14	27
Andrews, E. and S. Austin		10 5	21
Andrews, Ethan A			li
Andrews, George	. Wheels, felloes, sawing		2
Andrews, Hiram	. Casks, headings		20
Andrews, H		17	31
Andrews, James	Bark preparation	4	3
Andrews, James Pines	Sleds, hold back		20
Andrews, James and Enoch Piper Andrews, Joel W	Hulling oats, &c		2
Andrews, John	Screws, cutting.		2
Andrews, John	. Cloth, felting apparatus		
Andrews, John	. Gudgeon, &c		2
Andrews, John			2
Andrews, John	Mortising timber		2
Andrews, J., assignee of Rochius Heinisc	h Shears, tailor's		3
Andrews, Joseph E	Tree nails, turning		1
Andrews, Joseph E	Planing machine		2 2
Andrews, Mark	Water wheel		2
Andrews, Robert	Kiln for grain		î
Andrews, Robert W	Knives and dirks attaching to pistols		3
Andrews, Samuel	. Balance steel yards	. 12	2
Andrews, Solomon	Lock, door		
Andrews, Solomon			
Andrews, Solomon			١.
Andrews, Solomon		1 4	1
Andrews, Solomon			1
Andrews, Wm. D	Pumis, centrifugal	. 11	1 2
Andrus, James	Cancers, curing	. 20	3
Angel, Charles	Punches for straps	. 16	2
A 11 P2 A	Loom temples		

PATENTERS.	ENVENTIONS OR DISCOVERING.	CLASS.	PAGE.
Angell, Otis N	Alarm bell and clock	8	186
Angell, Samuel	Files for papers	18	391
Angell, William	Punching raw hides	16	29
Angevine, Caleb		1	•
Angevine, Caleb	Churn, balanced lever	1	;
Angevine, Caleb	Churn, pendulum	1	1
Angevine, Caleb	Harness, horse collar	16	297
Angevine, David	Water, pressing, from cloths	17	314
Anlesly, Robert	Warming houses	5	14
Annesley, William	Constructing boats or vessels	7	160
Annesley, WilliamAnnesley, WilliamAnnin, Wm. BAnnin, Wm. BAnnin, Wm. B	Constructing vessels	7	16
Annesley, William	Timber for domes	9	200
Annin, Wm. B	Globes	8	183
Ansell, John and James Gallery	Grist mill	13	254
Anstine, George	Thrashing machine	1	35
Antes, Henry	Chimneys	5	124
Anthony, David	Bedstead for sick	17	309
Anthony, David, jr	Shoes, horse	2	59
Anthony, David, sen	Plough, improvement	1	21
Anthony, John	Plough	1	13
Anthony, Samuel	Salt furnace, &c	4	114
Anthony, Saml. D., and D. Barnum	Incrustation in steam boilers, prevent'g	4	109
Antrim, Pinder	Flax spinning	3	75
Apple, Philip	Trunnels for fluids	11	222
Wharton	Heat, applying to fluids	5	130
Innieton, James,	Washing machine	17	316
Archbald, Wm. A	Oil and sugar boiler	4	112
Archbald, Wm. A	Sugar manufacturing	4	117
Archbald, Wm. A	Sugar from cane juice	4	117
Archbald, Wm. AArchbald, Wm. AArchbald, Wm. AArchbald, Wm. AArchbald, Wm. AArchbald, Wm. A	Sugar, raw or brown	4	118
archoaid, wm. A	Sugar, raw or brown	4	118
Archbald, Wm. A	Sugar refining	4	118
Archbald, Wm. A	Sugar refining	4	118
Archer, Ellis S	Lamps, lard	5	139
Archer, Ellis S	Balance for hay and cattle	12	240
Armour, James, jr	Springs, carriage	10	210
Armour, James U	Composition for scurvey	4	103
Armstead, Thos. B	Pipes, acqueduct	11	224
Armstead, Wm	Weevil destroying	1	34
rmstrong, Abel D	Plough, agricultural	1	19
Armstrong, Jos. B	Heating liquids by steam	5	136
Irmstrong and King	Winnowing grain and berries	1	34
Armstrong, Marun N	Cutlery, cleaning and polishing	2	4]
Armstrong, Martin N	Knives and forks, polishing	2	48
Irmstrong, M. N. and W. H. King	Cooler and sifter	13	251
rmstrong, Stephen	Loom	3	80
rmstrong, Thomas	Sawing circles	14	277
rndt, Daniel	Beehive, cloth	1	4
rndt, Jacob	Saw, filing	2	57
Arnold, Alonzo C		2	56
rnold, Albion P	Washing machine	17	317
rnold, Asa	Spinning, roping, cotton	3	91
rnold, Daniel C	Thrashing machine	1	22
Arnold, Eliphaz W	Inking rollers, temperature of	18	323
rnold, Erastus	Grinding grain, portable mill	13	252
krnold, Gilbert	Winnowing grain	1	34
Arnold, Ichabod	Sleigh shoes, cast iron	10	210
Arnold, Jas. H. and J. Bondsall	Thrashing machine	1	30
Arnold, James H		3	68
Arnold, J. and G. G. Bishop		.3	96
Arnold, Jesse		12	24
Arnold, Job.	E 1055, CHCCSC	12	243

РАТЕЙТИЙ 6.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
	Cloth, web without spinning, &c	3	69
	Quadrant	8	186
	Spinning cotton yarn	3	89
Arnold, PelegArnold, Robert C	Washing machine	3 17	92 316
	Hulling clover seed	i	13
	Evaporation	4	108
	Stove, cooking	5	140
Arnold, William E	Horse power	13	25
	Horse power or enimal	13	256
	Horse power or animal	13	256
	Washing machine	17 17	315 315
	Washing machine	17	317
Arnoux, Antoine	Gas burner	5	129
Arrowsmith, A. T. assignee W. Hunt	Inkstand	18	323
	Inkstand	18	323
	Inkstand	18	323
	Grindstones	13	252
	Matches, friction	2	60 110
Ashbridge, William	Cabooses	5	124
	Boilers	6	151
Asher, David	Cooking machine	5	126
	Cutting grain, &c	1	11
	Sugar candy, making	4	117
	Blocks, sheares, boxes	7	167
	Straw plat, dressing	10 3	205 94
	Physiognotrace	18	326
Atherton, John	Wheels, hubs	10	214
Atkins, Ira	Mail bags, bolt for	16	298
Atkinson, Jos.	Water wheel	11	230
	Caoutchouc on cloths	4	101
	Boots and shoes, water proof	16 22	295
	Raising vessels	7	357 176
	Tanning in cold water	16	309
Atwater, F	Stoves, anthracite	5	136
Atwater, James	Lock, door	2	50
	Grates	5	129
	Grates onen	5	129
	Grates, open	5 5 •	129 138
	Stove, anthracite	5	138
	Stove, furnace	5	145
	Stove, furnace	5	145
	Stoves and grates	5	145
	Checks, blanks	18	321
	Checks, blanks	18	322
	Checks, blanks	18 5	321 135
	Winnowing and fanning machine	ĭ	35
Atwell, Benjamin.	Press, cheese	12	241
Atwell, Benj. and I. Nichols	Churn	1	5
Atwood, Anson	Fulling mill and loom	3	74
	Stoves, air tight	5	537
	Stove, cooking	5	141
Atwood, Anson	Stove, cooking, ranway	5 5	144 144
Atward Arean			
Atwood, Charles	Hooks and eves		
Atwood, Charles	Hooks and eyes	2 21	46 352

Patentëes.	INVENTIONS OR DISCOVERIES.	CLASS.	PAG
Atwood, Charles	Winding slubbing	3	
Atwood, Charles	Doffer	3	
Atwood, Charles	Spinning woollen slubbing	3	
twood, Hy. C		1	
twood, Moses, jr	Seeding, planting machine	1	
twood, William and Daniel Hamblet	Plough ridge	1	
ugur, Hezekiah.	Carving machine	14	2
Lugustin, Ernst G.	Shoes, water proof	16	3
Lugustin, Ernst G.	Straw cutter	1	i
ugustin, Ernst G.	Stoves, cooking	5	1
lugustin, Ernst G.			2
ulabaugh, Jacob.	1 _ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13	2
uld, Washington and James Cox		5	1
ulder, Ez	l ====	4	
ult, Henry		17	3
umock, Christopher	Washing clothes, rotary pounder	17	3
ustin, Charles B.	Marble sawing	15	2
ustin, Cyrus		3	_
ustin, F. J		18	3
ustin, Frederick J		3	_
ustin, Frederick J	Inking type, machine	18	3
ustin, Solomon		1	1
ustin, Wm. C	Door plates	.2	_
veilhe, Jean B		13	3
veilhe, John B.		9	]
veilhe, John B		11	1 3
veilhé, John B		11	2
verill, Henry		7	]
verill, Henry	Water wheel	11	3
verill, Henry		11	2
verill, Henry	Grist and paint mill	13 17	2
verill, Isaac	Washing machine and press Hoe, garden	i	3
verill, Isaac W		4	1
verill, John R	Boilers, steam, cast iron	6	í
verill, John R	Stones, cylindrical dressing	14	2
verill J. R. and F. Hoard	Steam engine, rotary	6	î
very, Alexander H	Tanning	16	3
very, Frederick	Forges, backs	2	١ ،
very, George D	Plough	ĩ	
very, George D		Ī	ł
very, George D	Plough	ī	1
very, H. and H. Scoville	Steam engine	6	1
very, 1ra	Washing machine	17	3
very, Ira	Washing machine	17	3
very, William	Distilling by steam	4	i
very, William	Fuel, saw-dust drying	5	i
very, William	Saw, circular reacting	14	2
very, Williamvery, Wyllys	Lathe, turning wood	14	2
xford, Edward J	Garments, draughting instruments	21	3
xteil, Jehiel F	Thrashing machine	1	
xtell, Jehiel F	Horse power	13	2
ylsworth, Benjamin	Hides, softening dry	16	2
ylesworth, Chadiah	Water wheel	11	2
ylesworth, Chadlah	Water wheel	11	2
yars, Joshua	Boot trees	16	2
yer, Nathan	Books by boot cramp	16	2
yers, Abraham	Spark arresters	6	1
yers, Frederick J	Nails cutting, machinery	2	
yers, Littleton	Filtering apparatus	11	. 5
yers, Wm. and H. Gay	Straw cutter		
yers, Wm. and J. Cochranzam, Pierre	Spinning machine	.3	۔ ا
Lain, 4 101 i 5.4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DOOLS and Shoes, elastic.	16	2

			THE THE
PATENTERA.	IMPENTIONS OR DISCOVERNES-:	CLASS	PAGE.
Babb, Henry	Raft constructing	7	176
Babbet, Benjamin	Motion reciprocating	13	259
Babbitt, Benjamin	Brush trimming	17	310
Babbitt, Charles	Drill, stock screw	2	42
Babbitt, Isaac	Wheel boxes	10	212
Babbitt, Higbee & Plantz	Pumps and fire engine	11	226
Babcock, Abijah.	Propelling vessels,	7	175
Babcock, Alpheus	Piano forte	18	325
Babcock, AlpheusBabcock, Alpheus	Piano forte Piano forte stringing	18 18	326 326
Babcock, Alden	Weights, cast iron, adjusting	12	245
Babcock, Charles	Stoves, coal	5	138
Babcock, Harvey W	Tanning, removing bark	16	302
Babcock, Isaac	Cutting cradle, for grain	1	10
Babcock, John	Steam engine, high temperature	6	158
Babcock, John	Ball stocks, printer's	. 18	321
Babcock, John, jr	Pumps	11	224
Babcock, Joseph B Babcock, Lemuel E	Engine, fire	11	221 270
Babcock, Samuel	Spectacles, spiral spring	14 8	186
Batchelder, Henry	Flue contracters or valves	. 5	127
Bachelder, James	Currier's knife, sharpening	16	296
Bachelder, James	Currier's knife	16	296
Bachelder, James	Tanning hides	16	302
Bachelor, Lemuel	Washing machine	17	314
Bachelder, Lorenzo and Samuel H	Seeding, seed planters	1	23
Batchelor, Nath'l, ass'nee of H. Biggins.	Clock frame	8	183
Batchelder, Otis	Tanning, extract bark	16	302
Batchelder, Samuel	Yarn dressing	3 7	96 167
Batchelor and Thomas	Joint of wood work	14	268
Batchelor, William	Wheels, boxes, and axletrees	10	212
Bachman and Ehrenfried	Bathing apparatus	20	341
Bachman, Heinrich	Car, railroad, frame	10	207
Bachman, Heinrich	Pumps	11	225
Bachman, Heinrich	Lock, safety	19	326
Backus, Evens	Stores but air	5	151 145
Backus, John and Evens	Stoves, hot air	5	146
Bacon, Allyn	Suspenders	21	354
Bacon, Asahel		~i	7
Bacon, Asahel	Churn, propelling by weights	13	253
Bacon, C. W. M	Garments, measuring	21	352
Bacon, D. M	Carding machine	3	68
Bacon, Ephraim	Churn	1	5
Bacon, Jonathan	Window spring featurer	2	63
Bacon, JonathanBacon, Jonathan	Window spring fastener	10	63 210
Bacon, Lathrop S	Stove design	5	137
Bacon, Lathrop S	Stove oven	5	143
Bacon, Reuben and E. Harris	Fire place and chimney	5	127
Bacon, Reuben and Wm. E. Marshall	Ovens, double chimney	5	134
Bacon, Robert	Hats, planking	3	78
Bacon, Samuel	Distilling, steam	4	106
Bacon, William	Loom, carpet and rug	3	80
Bacon, William W	Suphilis cure	5 4	131 118
Badeau, Nicholas W	Stock	21	353
Badger, Edwin H	Bedstead fastening	17	308
Badger, Jared.	Boring and framing timber	14	266
Badger, L. V	Furnace, hot air and cupola	2	44
Badger, L. V	Furnaces, cooking	5	128
Badger, L. V. and R. Walker	Forge, hearth, hot air	2	43
Badger, Urestes	reamer dressing	17	312
25			

PATEMEROS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Badger, O	Horse power, endless chain	13	956
Badger, Orestes	Horse power, endless floor	13	966
Badger, O. and O. Lull	Hydrostatic oil press	11	990
Badger and Walker			34
Badger, William	Planing	14	27
Badger, Willard			5
Badger, Willard	Cutting apples		31
Badlam, Edward	Piano forte	18	32
Badlum, Edward, jr			21
Bueder, Charles.		1	359
Baer, Charles and John Gouliart			1
Bagley, A. G., assignee of Jno. Durant.		18	32
Bagley, A. G.	Pen case	. 18	32
Bagley, A. G.		18	39
Bagley, Samuel L	Churn	1	
Bailey, Amity			18
Bailey, Amon.		1	1 !
Bailey, Amon.			00
Bailey, A	Wherves, fish		20
Bailey, Andrew			22
Bailey, Andrew			27
Bailey, Francis		2	5
Bailey, Francis	Paper, hot pressing	3	8
Bailey, Francis			32
Bailey, Henry			254
Bailey, Jeremiah			11
Bailey, Jeremiah	. Rake hoe, horse	1	21
Bailey, Jeremiah		9	195
Bailey, Jeremiah	· Elevating grain	13	251
Bailey, Jeremiah		13	951 967
Bailey, Jeremiah			289
Bailey, Jeremiah			308
Bailey, Jeremiah		2	46
Bailey, John, jr			131
Bailey, J. and J. Sprinkle	Thrashing machine	Ĭ	32
	Boiler, kitchen	4	123
Bailey, Laommi		5	143
Bailey, Libbeus, Jnq. B. Ripley, & Wn	1.	1 1	
B. Smith		19	335
Bailey, Robert		18	321
Bailey, Samuel M		1	13 24
Bailey, Thomas R. and Ezra Rich		1	350
Bailey, Uriah	Combs, ornamental	21	351
Dailey, Uriali	Combs, tortoise	21	351
Bain, David		5	125
Baird, Archibald H		5	132
Baird, Abiram		ĭ	5
Baker, Abraham	Water wheel, inclined	11	233
Baker, Amon	Gates, balance and sliding	9	196
Baker, Charles T	• Excavator, mud machine.	9	196
Baker, Cyrus	. Churn	1 /	OTE
Baker, David	Saw mill. curvilinear	14	275 95
Baker, Elisha	Whipper, cotton	3	254
Baker, George and F. R		13	154
Baker, Henry F	rurnace, steam boiler	6	80
Baker, Horace	Loom, carpet	3	83
Baker, Horace.	Rarrela muking	14	266
Baker, Horace	Staves jointing	14	990
Baker, Isaac	Churn	i	4
	· -,  —	_	

PATROTOGO,	INVENTIONS OR DISCOVACION.	CLASS.	PAGE.
Baker, Isaac	Shingles, sawing	14	270
Baker, James	Pump boxes	11	225
Baker, James	Pump valves	11	227
Baker, Job	Lock, wire spring	2	50
Baker, JohnBaker, John	Chimney, regulating valve	5	125
Baker, J. W. and Wm. W. Riley	Tooth extractor	10 20	215 343
Baker, Joseph	Medicine	4	111
Baker, Lewis	Soles, scarfing	16	300
-Baker, Luke	Axes, pick	2	39
Baker, Martin and Thomas	Tobacco, curing	1	23
Baker, Nathan	Plough	1	17
Baker, Peter	Cutting grass	1.	11
Baker, Remem., executor of Stan. Baker.	1 0	10	210
Baker, Samuel H	Press, cotton	10	042
Baker, Stephen	Boiler, steam	12	243 151
Baker, Thomas	Grist mill	13	253
Baker, William P	Gin, cotton	3	75
Baker, William	Hinges, blind	2	46
Baker, William	Warming rooms	5	147
Baker, W. H. and H. R. Worthington	Steam engine slide and valve	6	161
Baker, Wm. H. and Samuel H. Baldwin		6	161
Baker, William	Pump, forcing, double		226
Baker, William	Water to machinery	11	229
Baker, WilliamBaker and Biddle	Wood for stuffing beds	14	282 328
Baker and Gifford	Transferring impressions to wood Brick press	18 15	287
Bakewell, John P	Wheels, glass, for clocks	8	187
Bakewell, John P	Glass furniture	15	288
Bakewell, John S	Steam engine safety valves	6	162
Bakewell, Samuel R	Kiln, brick, covering	15	289
Bakewell, Thomas	Glass manufacturing	15	288
Bakewell, Thomas and John P	Press, combination of powers		242
Bakewell, Thomas and John P	Glass blowing	15	288
Bakewell, T. B. and J. P	Knobs, glass   Boats, canal	7	48 168
Bakewell, Thomas W	Constructing vessels	7	169
Bakewell, William L	Wind or water wheel	11	236
Balch, Benjamin and L. Webster	Thrashing machine	ī	80
Balch, Dan Shaw	Harness, bridle bit	16	296
Balch and Carter	Catheter, metallic, flexible	20	341
Balcom, Daniel A	Cement, compound resinous	4	101
Balcomb, Jacob	Shingles, shaving		279
Bald, William, jr	Spinning cotton, frame	3	89
Baldwin, Cyrus B	Printing, anastatic		32 <del>6</del>
Baldwin, Cyrus C	Corn shellers		9
Baldwin, Daniel	Hats, scalding and napping	3	78
Baldwin, David	Friction rollers		252
Baldwin, David	Smut machine	1	24
Baldwin, Eden	Saw mills	14	274
Baldwin, Enos			178
Baldwin, Ephraim	Stoves and furnaces		145
Baldwin, Ethan	Steam, applying		156 161
Baldwin, EthanBaldwin, Ethan		1 =	198
Baldwin, Guy C		1 -	102
Baldwin, Guy C	Pencil points	1	325
Baldwin, James	Planing machine	14	272
Baldwin, Jacob	Ovens, baking, and heating houses	5	134
Baldwin, James			82
Baldwin, Joseph C	Corn shelling	1	9
Baldwin, Joseph C. and Cyrus B	, Com Mill	1.13	252

Patenters.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Baldwin, J. C	Press, cotton and hay	12	243
Balawin, M. W.	Steam engine, locomotive and cars	6	159
	Steam engine locomotive for curves	6	159
	Steam engine locomotive tubes	6	159
Baldwin, M. W.	Steam engine locomotive tubes	6	159
	Steam engine locomotive	6	158
Baldwin, Matthias W	Steam engine locomotive	6	159
	Steam engine piston	6.	160 162
	Steam generating	6	163
	Wheels for cars	10	214
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Saddles, spring	16	299
	Spinning machine	3	98
	Mortising and tenoning	14	270
Baldwin, Sylvanus and Elisha Town	Spinning machine	3	90
Baldwin, S. K	Peg, shoe, cutting	14	271
	Snuff mill	13	260
Ball, Daniel	Lock, door	2	49
	Flax and hemp machine	3	73
	Gridirons	5	130
	Bedstead fastening	17	308 194
	Doors Plough	9	18
	Plough	î	18
	Ferrules, cane	2	42
	Pipes, machine for riveting	$\tilde{2}$	55
	Compass, mariner's	8	184
	Pipes, water, coating	11	224
	Balance scales	12	240
	Cigars, making	22	357
	Brick press	15	286
	Padlocks	2	54
	Blubber knife	7	168
	Drying flour	5	126
	Rocking chair	17 7	310 171
	Filter	ıi	222
	Nails and spikes	2	54
	Punches, copper	2	56
	Jackscrew	12	240
Ballou, Seth	Thrashing machine	1	29
	Thrashing and winnowing machine	1	33
	Plough, double shovel	1	20
	Window sash spring	2	63
	Bedstead for sick	17	308
	Chair, rocking	17	310
	Wool, preparing for worsted Hulling and thrashing clover seed	3	96
	Cutting beef	1 17	14 311
	Cutting meat	17	311
	Iron and steel rolling	2	47
	Hides, unhairing	16	298
	Tire, putting on	10	211
Banks, William	Bread, making	17	309
Banning, Edm. P.	Truss	20	344
Bannister, J. M	Brick machine	15	285
Banta, James, jr	Packing flour	12	241
Barber, Asa	Flocks, machine for cutting	3	74
Barber, Charles P		3	88
Barber, Erastus	Garment measure	21	352
Barbour, Horace and John Gleason	Carumg machine	3	68 960
Barber, Jesse	Washing mashine	13 17	260 316

PATUFFEEG.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Barber, Joseph S	Lightning and nators		10
Barber, Oliver	Lightning conductors	8	18 26
Barber, Oliver	Inkstand	14 18	32
Barber, Robert and Michael Hoffman	Stove		13
Barber, Sprague	Steam engine connecting	5 6	150
Barber, Sprague	Steam engine, expansive	6	15
Barbour, Philip E	Propelling paddles	7	17
Barbour and Tompkins	Saw whip, application of	14	27
Barclay, Hugh	Thrashing machine	1	3
Barclay, John	Bark mill	13	24
Bard and Haywood	Sawing timber concave, convex		27
Barkdull, Joseph S	Crimps for collar pad	14	29
Barker, Benjamin	Saw belt for timber	16	273
Barker, B. K	Saw mill saw	14	27
Barker, David W		14	
Barker, E. and J. and A. Hall	Ovens, stoves	.5	13
	Press, steam	12	243
Barker, Francis Barker and Fordham	Steam engine locomotive	_6	158
	Hides, breaking, hairing, and fleshing	16	29
Barker, J. and L. Kinsley	Felt manufacturing	3	7.
Barker, John	Blow pipe	2	40
Barker, John	Furnace, blast	2	4
Barker, John	Saw for ice	2	5
Barker, John	Boiler for anthracite coal	5	123
Barker, John	Furnaces, air, heating	5	128
Barker, J	Blow pipe	11	.219
Barker, Joseph	Tanning	16	301
Barker, Joseph	Tanning	16	302
Barker, Peter	Thrashing and breaking flax	1	27
Barker, Peter	Tables, manufacturing	17	314
Barker, Thomas E	Boiler, upright stove	5	123
Barker, William	Tew iron	2	61
Barker, William	Cards, cotton	3	68
Barker, William	Salt from sea water	4	116
Barker, William	Guage sight for boilers	6	154
Barker, William	Hydraulic machine	11	223
Barker, William	Slitting timber	14	280
Barlow, Benjamin	Salt by steam	4	116
Barlow, Jonathan	Flax dressing	3	72
Barlow, Nathaniel N	Steam engine	6	157
Barlow, Peleg	Rifles, sharpening edge tools	4	115
Barlow, Peleg	Rifles, sharpening edge tools	4	115
Barlow, Robert	Bungs, cutting	14	267
Barlow, Robert	Bungs, cutting	14	267
Barlow, Thomas H	Hemp preparation	4	109
Barnaby, Ambrose	Plough	1	18
Barnard, Cromwell	Dough baking	17	312
Barnard, Cyrus	Earth, raising	9	195
Barnard, Derrick	Plough, cast iron	1	19
Barnard, Frederick S	Houses, constructing	9	196
Barnard, Frederick S	Motion, substitute for cog gearing	13	259
Barnard, Phares	Paper moulds	3	86
Barnant, George	Wheels, carriage, and harness	10	213
Barnes, Aaron	Salt from salt water	4	115
Barnes, Amos	Grist mill	13	253
Barnes, A., S. Gray, and J. Clark	Blankets and cloth	3	67
Barnes, E., G. Hill, and S. B. Hawkins.	Brand	2	40
Barnes, Elijah	Press, cheese	12	242
	Flax and hemp breaking	3	74
Barnes, Henry	Mortising and tenoning	14	271
Barnes, Isaac B	Gin, cotton	3	75
Barnes, James	Washing machine, &c	17	318
Barnes, Joel	Press, standing	12	244
Barnes, Joel and Nelson T. Loomis	Corn, shelling	ĩ	9
Barnes, Joel			

PATRICTURA.	inventions or discovering.	CLASS.	PAGE
Barnes, Noah	Cultivator, corn	1	14
Barnes, Orson	Steam engine, rotary	6	100
Barnes, William	Thrashing machine	1	90
Barnford, Daniel	Brick, moulding and pressing	15	294
Barnhurst, Joseph	Umbrella runner	2	- 60
Barnhurst, Thos. and J. and W. Walker	- •	2	- 44
Barnett, Ezra	Cutting scythe	1	11
Barnett, Joseph	Suspenders		364
Barnett, Jno. P. and Francis Story	Garments, measuring	21	359
Barnitt, Allen J	Stove, cooking	5	130
Barnitt, John Barnitt, Thomas	Cordem program to aut	5	134
Barnett, Thomas	Cordage pressing tar out	3	79
Barnitz, Charles A	Thrashing machine	1	98
Barney and Beach	Oil from sun-flower	1	119
Barney, Comfort	Stoves	5	136
Barney, Luther and Abel A. Beach	Washing machine, steam	17	318
Barney, Matthew	Thrashing machine	i	20
Barney, Matthew	Excavator	ĝ	196
Barnum, Daniel	Loom, power	3	81
Barnum, Daniel	Boilers, steam, supplying	6	158
Barnum, Daniel	Steam engine valves	6	157
Barnum, D. B	Heating water, machines	5	130
Barnum, Dimon B	Carriage bodies, hanging	10	907
Barnum, Dimon B	Boots, crimping	16	293
Barnum, Eli	Boots and shoes, manufacturing	16	294
Barnum, Eli and Benjamin Brooks	Distilling	4	104
Barnum, H. L	Light and heat generating	4	110
Barnum, H. L. and M. Stephenson	Flax and hemp machine	3	73
Barnum, Isaac	Pump, steam vacuum	6	154
Barnum, Thomas S	Winnowing machine	1	36
Barnum, Thomas S	Hopper blower		255
Barnum, T. S. and A	Flax and hemp machine	3	73
Barnum, T. S. and E. Smith	Napping cloth		84
Barnwell, LinusBaron, Asahel	Water wheel, horizontal	11	194 <b>93</b> 3
Barr, Benjamin	Distilling, steam	14	105
Barrett, Asa	Engine, fire		221
Barrett, Asa	Corn husks for mattrasses	22	357
Barret, James C	Churn	ī	6
Barrett, Jonathan F	Winnowing garlic from wheat	l i	35
Barrett, Jonathan F	Packing flour	12	241
Barrett, Nathaniel	Hulling grain	î	T.
Barrett, Oliver, jr	Winnowing machine and fan mill	Ī	35
Barrett, Oliver, jr	Felting cloth	3	71
Barrett, Oliver, jr	Spinning roping, wool and cotton	3	92
Barrett, William	Dying silk	4	107
Barrett, William	Furnaces of anthracite coal	5	198
Barron, James	Stoves	5	136
Barron, James	Stove galley	5	143
Barron, James	Blocks, tackle and pulley, metal	7	167
Barron, James	Constructing vessels	7	169
Barron, James	Dock, lifting, trunk	9	193
Barron, James	Dock, floating dry	9	194
Barron, James	Filtering		292
Barron, James	Pumps	11	224
Barron, James	Wind wheel		235
Barron, James	Lever angle		240
Barron, James	Corks for bottles		267
Barron, James	Washing machine	17	319 315
	A contrib mecanic	17	
Rerron William A	k'uroiductor		1000
Barron, William A	Fumiductor	5 5	128 127

PATLITURE.	INVENTIONS OR DISCOVERSES.	CLASS.	PAGE.
Barrows, Ebenezer	Furnaces, air heating	5	198
Barrows, Ebenezer	Register, heating furnace	5	145
Barrows, Ebenezer	Stoves, quadrant	5	146
Barstow; Charles C	Ramrods	19	336
Bartholomew, Abraham	Propelling boats	7	172
Bartholomew, Daniel	Clapboards, sawing	14	267
Bartholomew, Erastus	Cables, chain	2	41
Bartholomew, Erastus	Noile manufacturing		70
Bartholomew, E. and W. Church	Nails manufacturing		53
Bartholomew, Erastus and W. Church.	Fire place defiance	5 11	127 220
Bartholomew, Frederick H	Cock stop	1 22	221
	Cock stop, piston		240
Bartholomew, Moses	Balance steel yards		143
Barthelemy, Peter			313
Bartholomew, Truman			49
Bartholomew, Truman	Window shutter fastening	1 =	63
Bartholomew, Truman		1 =	63
Bartholomew, Truman	Window shutter	1	201
Bartlett, Cromwell K		1 -	21
Bartlett, Cromwell K	Excavating and ditching		195
Bartlette, Elizabeth	Balsam Lavender		99
Bartlett, Horace	Stove, cooking	. 5	139
Bartlett, Horace	Stove, cooking	- 5	139
Bartlett, Nelson	Pen, fountain		324
Bartlett, Nelson	Baths, portable	. 20	341
Bartlett, Oliver, Otis Bartlett and George		1	
Bartlett	Nails manufacturing.		53
Bartlett, Robert	Carding machine		68
Bartlett, Samuel	Conduit, clay		221
Bartlett, Samuel	Water wheel, rolling tub		234
Bartlett, Samuel	Pipes, clay conduit		290 242
Bartlett, Sylvanus			278
Bartley, Jonathan P	Shingles cutting		162
Barton, Gardner	Steam valves, operating		60
Barton, Gardner, jr		1 2	93
Barton, Gardner, jr	Doors and gates, closing	-1 =	194
Barton, Gardner, jr	Engine, fire		
Barton, Gardner, jr., & Lysander Button	Engine, fire		221
Barton, Henry	. Wheel boxes, retaining	. 10	212
Barton, Henry	. Horse collar, stretching		297
Barton, James			260
Barton, Jason			40
Barton, John, jr	. Springs, roller, wagons		211
Barton, Thomas C	Tire bending		211
Barton, Thomas C	Tire drilling	. 10	212
Barton, Thomas C			227
Barton, William			210
Barton, William M			13
Barton, Wrestcum P	Thrashing and shelling corn		33
Bascom, Harvy			102
Bassett, Cushman		. 16	296
Bassett, David	Augur, screw	14	265
Bassett, Nathan	Cushion, billiard table	. 22	184 357
Bassford, Eben.	Window seek trains	. 22	201
Bassford, Ebenezer		. 9	229
Bassford and Johnson			28
Batby, Antoine			160
Batby, Antoine	Pumps		222
Bateman, Jonas	Paper, cutting edges		8
Bates, Charles	. Saddles, spring.	16	299
	Stove, cooking	-, 10	13

PATENTERS. INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Bates, Elisha Steam power Steam	- 6	165
Bates, John Distilling		104
Bates, Steph. and Geo. Titcomb Propelling boats		173
Bates, Stephen		307
Bates, Stephen		341
Bates, Wood, & Wells		125
Battin, Joseph		125
Battin, Joseph		129
Battle, Mellen Propelling canal boats, steam		173
Battle, Mellen Steam engine	1 -	157
Battle, Mellen Steam engine, rotary		160
Battle, Mellen Steamboat, propelling by poles	. 7	177
Battle, Mellen, Wheelwright's labor saving	. 10	215
Bauss, Henry (should be Henry Bangs) Cutting meat	. 17	311
Baughman, J. Guiteau and High Furnace smelting ore		.44
Baxter, John G Spinning machine, family		91
Baxter, Thomas		223
Baxter, William Spinning, driving bobbing		89
Baxton, William		342
Bay, James M Railroad, connecting		198
Bay, John C Composition, pharmaceutic		103
Bayard, Abel Longimetar		185
Bayrd, Abel		298 312
Bayha and Rapp		299
Baylor, Peter		266
Bayley, Moses		244
Bayley, William Raising water by steam	1	223
Bayley, William Shingles and staves		279
Bazin, James A Seraphines		328
Bazin, John, jr Loom temples		82
Bazin, John, jr Loom, stocking		82
Bazin, Stephen and James A Cordage	. 3	70
Bazin, Stephen and James A Ropes, laying	. 3	87
Beach, Benjamin Splints and laths, making		280
Beach, Burroughs Washing machine		315
Beach, Chas. C. K Fur cutting		74
Beach, Cyrus		205
Beach, Cyrus W		215
Beach, Isaac		207
Beach, Joseph		5 15
Beach, Joseph		28
Beach, Joseph Saw setting		57
Beach, Joseph and David Culver Saw set		57
Beach, Moses Y Rags, cutting		87
Beach, Richard M Boiling liquids of all kinds		100
Beach, Robert A. B Straw cutter		26
Beach, Timothy Steam engine, circulating	. 6	158
Beach, Timothy Propelling boats		172
Beach, Waldren Corn sheller,	. 1	9
Beach, Waldren	. 1	10
Beach, Waldren Cultivator, tooth		10
Beach, Waldren		21
Beach, Waldren		21
Beach, Waldren		21
Beach, Waldren		31 209
Beach, Waldren and F. Lukeng Brick proces	1 22	209
Beach, Waldren and E. Lukens Brick press Cultivator, tooth		10
Beach, William		17
Beach, William Stoves, close		138
	9	200

patentees.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Beach, William	Pump, forcing, double	11	22
Beach & Starr	Hulling rice	î	15
Beackley, John W	Trunks, travelling	16	303
Beadle, Harvey	Winnowing machine	1	34
Beals, Asa	Locks, door and trunk	2	50
Beale, Joshua T	Lamps	5	131
Beale, Joshua T. and Benjamin	Steam engine, rotary	6	161
Bealc, Josiah	Trip hammer	2 7	170
Beal, Josiah Beale, Robert	Carriages, disengaging horses	10	206
Beale, Robert	Harness, horses in shaft	16	297
Beale, Robert	Lock, percussion cannon	19	335
Beale, Robert	Lock, percussion gun	19	335
Beals, Samuel	Stove, cooking	5	139
Beale, Thomas K	Brick cornice	15	285
Beal, William, jr., and B. S. Hale	Mills, grinding	13	257
Beale & Bucklin	Slitting timber	14	280
Beam, Joshua.	Thrashing machine & hair picker	1	33
Beam, Michael	Seeding cotton planter		20
Beam, Michael	Brooms, wire on	• -=	30
Bean, Alexander F	Stove, cooking		14
Bean, Benjamin W	Cloth of all kinds, sewing	1 -	6
Bean, Elisha	Plough, dressing corn		2
Beane, Jonathan	Winnowing machine		3.
Bean, Samuel H	Car, replacing on track		20
Bean, Samuel H	Chair, rocking	17	31
Bearce, John	Decks of ships	7	16
Beardsley, Backus A	Bark mill		25
Beard, David	Fur cutting		7
Beard, DavidBeard, David	Hat blocking		31
Beard, Ebenezer	Water wheel screw		23
Beard, Ebenezer	Bee hive	i	
Beard, Ebenezer	Bee hive slide		1
Beard, Ebenezer	Propeller, screw	. 7	17
Beard, George, jr	Garments, cutting	- 21	35
Beard, Josiah and Abraham Whitney	Loom temples	.  3	8
Beasom, Wm. D. and E. G. Reed, as-			
signees of Geo. W. Wilson	Doors, hanging		19
Beath, JohnBeath, John	Truss bolted		34
Beatty, Leonard	Calico and paper printing	1	6
Beatty, Leonard	Distilling boiler		10
Beatty, Leonard	Distillery, washing machine	. 4	10
Beatty, Thomas		. 1	1 3
Beatty, Thomas	Washing machine and churn	. 17	31
Beatty, Thomas			31
Beatty & Shanks	Thrashing machine	1 1	2
Beauchamp, David			23
Beaumont, George			3 7
Bechtler, Christopher	Gold, washing sand	. 3	1 4
Bechtler, Christopher	Gold, washing ore		1 4
Beck & Coppinger	. Hulling rice, beating out	. ī	i
Rack & Ianka	Hulling cotton good & hypeking	1 1	) i
Becker, Henry	. Distillery	. 4	10
Beckwith, Amasa B	. Water wheel	. 11	2
Beckwith, Amasa B	. Water wheel	111	2
Becker, Henry Beckwith, Amasa B. Beckwith, Amasa B. Beckwith, Ira L. Beckwith, Jedediah. Beckwith, J.	Spoke shave	114	28
Deckwith, Jededian	Pumps Metallic	111	29
Beckwith, Josiah	Namer teasing cloth	11 3	2
Beckwith, J.	Borine timber	14	3
26	-' www		· •

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PATENTEES.	INVENTIONS OR DISCOVERIÉS.	CLASS.	PAGE
Beckwith, S., S. Beckwith, jr., and Eleaze			
Beckwith	Pegs, making		27
Bedfee, ThomasBedford, John	Thrashing machine		3 29
Bedford, John.			29
Bedwell & Henfrey	Evaporator		10
Bedwell & Mitchell	. Bark extracting		9
Bedwell, Thomas.			17
Beebe, Eliphalet.		10	21
Beebe, Henry Beebe, Lyman and James H			29 21
Beebe, Stephen.	Wagon tilting	i	3
Beebe, Uriah	Thrashing machine, conveying straw.	5	13
Bebee, William	Hot water, circulating	5	14
Beebe, William.	Stove, cooking	4	10
Beecher, Benjamin D.		1	2
Seecher, Benjamin D		7	3 17
Beecher, Benjamin D.	Horse power	13	25
Beecher, John		ĩ	2
Beecher, Mather.	Bark mill	13	25
Beers, John D		1	2
Beers, John D	Planing machine	14	27
Seers, J. B	1 2 2	20	34
Beers, Smith Behan, Thomas		8	18 10
Beeman, William (should be Beaman)			30
Beidleman, Henry	Wheel chain		26
Beimler, Frederick	Axles, greasing	10	20
leissel, David		17	31
Selden, Allen			7.
Selden, Thomas.		4	10. 10
Belknap & Merrill			27
Selknap, Morris B		2	4
Belknap, Morris B.	Files, cutting	2	4
Selknap, Seth			28
Selknap, Stephen		2	5
Belknap, Stephen		11	21: 19
Bell, Benjamin.			9
Bell, Edward, S. and D			30
Bell, John	Water wheel		23
Bell, Martin		6	15
Sell, Martin			21
Bell & Montmollen. Bell & Montmollen.	1 ~	3	7.7
Bell, Robert P.			16
Sell, Thomas	Raising vessels		17
Bell, Thomas			17
cll, William			7
Bell, William			.9
Bell, William		1 .4	17
Bell, William Bell, William	Staves, sawing	14	28 30
Bell, William H	Bedstead, fastening	17	30
Bell, William HBell, William H	Cannon, elevating	19	33
Sell, William H	.  Cannon, traverse board	19	33
Sell, Wm. H	Lock, percussion & cannon vent	19	33
Bellemerc, John	Doirs & nuts, heads	2	1 4
Bellingen Edmund P	Apricultural steam annaratus	8	18 15
Bellows & White	Potash	· 4	11
Belote, Isaac M			

Benciaj, Antoni.	PATENTALA.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGB.
Belt, Charles R.   Seeding corn planter.   1   326   Belt, Rufus   Bedistad   17   326   Bentow, Thomas   Grist mill   13   254   Bentow, William   Grist mill   13   258   Bencine, Anthony   Saw mills   14   270   Bennis, James   Grist mill   13   259   Bencine, Anthony   Grist mill   13   259   Bencine, Anthony   Coffee and tea making   17   310   Bencine, Anthony   Grist mill   13   259   Bender, George   Canal locks   9   192   Benedict, Denezer   Cheese press and cider   12   248   Benedict, Ebenezer   Cheese press and cider   12   248   Benedict, Ebenezer   Cheese press and cider   12   248   Benedict, Philip   Stoves, stone coal   5   146   Benedict, Philip   Stoves, stone coal   5   146   Benedict, Philip   Stoves, stone coal   5   146   Benedict, Philip   Stoves, stone coal   5   146   Benedict, Philip   Stoves, stone coal   5   146   Benedict, Philip   Stoves, stone coal   5   146   Benedict, Philip   Stoves, stone coal   5   146   Benedict, Philip   Stoves, stone coal   5   146   Benedict, Philip   Stoves, stone coal   5   146   Benedict, Philip   Stoves, stone coal   5   146   Benedict, Philip   Stoves, stone coal   5   146   Benenett, John M   Acqueduct of line water, proof   9   191   Benjamin, Eli F   Chairs   17   310   Bennack   John M   Acqueduct of line water, proof   9   191   Bennack   John M   Chairs   17   310   Bennett, Gharles   Mortising machine   14   270   Bennett, Eze   Cooking apparatus   5   125   Bennett, Eze   Stove, cooking   5   125   Bennett, James   Punching iron   2   56   Bennett, James   Punching iron   2   56   Bennett, James   Grates   1   1   1   1   Bennett, James   Grates   1   1   1   1   Bennett, John M   Distilling by steam   1   1   2   1   Bennett, John M   Distilling by steam   1   1   2   1   Bennett, John M   Distilling by steam   1   1   2   1   Bennett, John M   Distilling machine   1   2   1   Bennett, John M   Distilling machine   1   2   1   Bennett, John M   Distilling machine   1   1   1   Bennett, John M   Pile driver   9   197   Bennett, William   M				46
Bell, Rufus   Bedstead   17   327				130
Bemis, James			1	7417
Benbow, Thomas				
Benbow, William   Grist mill   13   258				
Bencinie, Anthony	Benbow, William			
Benciani, Antoni.	Bencine, Anthony			274
Bencine, Anthony.   Grist mill.   13   255   Bencher, George.   Canal locks   9   193   Benchedict, D.   Water wheel from back water.   11   234   Benchedict, Ebenezer   Cheese press and cider.   12   242   Benchedict, Ebenezer   Cheese press and cider.   12   242   Benchedict, Ebenezer   Cheese press and cider.   12   242   Benchedict, Philip.   Stoves, atone coal.   5   146   Benchedict, Philip.   Stoves, stone coal.   5   146   Benchedict, Philip.   Stoves, stone coal.   5   146   Benger, Thomas.   Bark preparation.   4   99   Benham, John M.   Acqueduct of time water, proof.   9   191   Benjamin, Eli F.   Chairs   17   310   Bennack, John.   Steam engine.   6   157   Bennack, John.   Steam engine.   6   157   Bennett, Charles.   Mortising machine.   14   270   Bennett, Ez.   Cooking apparatus.   5   123   Bennett, James.   Distilling tub.   4   107   Bennett, James.   Punching fron.   2   56   Bennett, James.   Cooking apparatus.   5   125   Bennett, James.   Grates.   17   28   Bennett, James.   Grates.   17   29   Bennett, James.   Grates.   17   29   Bennett, James.   Grates.   17   29   Bennett, James.   Grates.   17   29   Bennett, James.   Grates.   18   29   Bennett, James.   Grates.   19   29   Bennett, James.   Grates.   19   29   Bennett, James.   Grates.   19   29   Bennett, John.   Pinching fron.   2   56   Bennett, John.   Pen, microscopic.   18   334   Bennett, John   Distilling by steam.   4   107   Bennett, Phineas.   Raising wrecks.   9   199   Bennett, Phineas.   Raising wrecks.   9   199   Bennett, Phineas.   Raising wrecks.   9   199   Bennett, Phineas.   Seam generating.   6   6   6   Bennett, Phineas.   Raising wrecks.   9   199   Bennett, William.   Ship's cellars, calking.   7   177   Benson, Page & Hough.   Sawing boat oars.   13   288   Benson, Benjamin.   Coccooneries, removing the fifth from hurdles.   13   13   Benson, Matthew.   Chimney scraper   5   126   Benson, Matthew.   Grates.   13   13   Benson, William.   Splitting skins.   16   301   Bentent, William.   Splitting ski				310
Benedict, D.		Grist mill	13	252
Benedict, Ebenezer	Bender, George		9	192
Cheese press and cider				234
Benedick, N. jr., A. Benedick, and A. A. Hotokhkiss				
Senedict, Philip.   Stoves, stone coal.   5   146	Benedick, N. jr., A. Benedick, and A. A.			
Benedict, Philip.				
Benger, Thomas   Bark preparation   4   99   Benham, Eliakim   Napping cloth   3   84   Benham, John M   Acqueduct of lime water, proof.   9   191   Benjamin, Eli F   Chairs   17   310   Bennamin, Eli F   Chairs   17   310   Bennamin, Ghi F   Chairs   17   310   Bennatk, John   Steam engine   6   157   Bennett, Charles   Mortising machine   14   270   Bennett, Charles   Trus   290   344   Bennett, Ez   Cooking apparatus   5   125   Bennett, Ez   Stove, cooking   5   139   Bennett, Ez   Stove, cooking   5   139   Bennett, Isaac   Distilling tub   4   107   Bennet, James   Churn   1   6   Bennett, James   Punching iron   2   56   Bennett, James   Punching iron   2   56   Bennett, James   Grates   5   125   Bennett, James   Tide mills   11   122   Bennett, James   Tide mills   11   122   Bennett, James   Tide mills   11   122   Bennett, John   Pen, microscopic   18   324   Bennett, John M   Distilling by steam   4   105   Bennett, John M   Distilling by steam   4   105   Bennett, John M   Distilling by steam   4   105   Bennett, Phineas   Steam generaturg   6   162   Bennett, Phineas   Steam generaturg   7   17   Bennett, Samuel D   Propelling canal boats   7   173   Bennett, William   Mill stones, bed   13   228   Bennock, John   Plaining machine   14   272   Bennock, John   Plaining machine   14   273   Bennott, William   Mill stones, bed   13   228   Bennock, John   Plaining machine   14   272   Benson, Benjamin   Cocconeries, removing the filth from hurdles   3   70   Benson, Benjamin   Cocconeries, removing the filth from hurdles   3   70   Benson, Benjamin   Cocconeries, removing the filth from hurdles   3   70   Benson, Benjamin   Composition for stiffening hats   4   103   Benson, Benjamin   Inclined planes, coge   9   196   Bent, William   Inclined planes, coge   9   196   Bent, William   Splitting skins   16   301   Bent, William   Splitting skins   16   301   Bent, William   Splitting skins   16   301   Bent, William   Splitting skins   16   301   Bent, William   Splitting skins   16   301				
Benham,   Eliakim	Benedict, Philip			
Benham, John M.			- 1	
Benjamin, Eli F.   Chairs   17   316				
Bennack, John				
Bennett, Charles				
Bennett, Epenetus			1	
Bennett, Ez.   Cooking apparatus   5   125			= : 1	344
Bennett, Ez. E.   Stove, cooking.   5   139   Bennitt, Isaac.   Distilling tub   4   107   Bennet, James.   Churn.   1   6   Bennett, James.   Churn.   1   6   Bennett, James.   Punching iron.   2   56   Bennett, James.   Cooking apparatus.   5   125   Bennett, James.   Grates.   5   129   Bennett, James.   Tide mills.   11   229   Bennett, James H.   Flax pullers.   1   11   Bennett, John   Pen, microscopic   18   324   Bennett, John M.   Distilling by steam.   4   105   Bennett, John M.   Distilling by steam.   4   105   Bennett, John M.   Distilling by steam.   4   205   Bennett, Phineas.   Steam generating.   6   162   Bennett, Phineas.   Steam generating.   6   163   Bennett, Phineas.   Raising wrecks.   9   199   Bennett, Phineas.   Raising wrecks.   9   199   Bennett, William.   Ship's cellars, calking.   7   173   Bennet, William.   Mill stones, bed.   13   225   Bennock, John.   Plaining machine.   14   272   Benson, Benjamin.   Cocooneries, removing the filth from hurdles.   3   70   Benson, Joseph.   Oil feeders.   5   125   Benson, Matthew.   Fenders, fire.   5   125   Benson, Sewall.   Washing machine.   17   317   Benst, William.   Inclined planes, cogs.   9   196   Bent, William.   Splitting skins.   16   301   Bent, William.   Splitting skins.   16   301   Bent, William.   Splitting skins.   16   301   Bent, William.   Splitting skins.   16   301   Benteen, J. C., and H. W. Zimmerman, Washing machine.   17   317			1	125
Bennett, James	Bennett, Ez. E		5	139
Bennett, James   Punching iron   2   56			4	107
Bennett, James   Cooking apparatus   5   125   Bennett, James   Grates   5   129   Bennett, James   Tide mills   11   11   Bennett, John   Flax pullers   1   11   Bennett, John   Pen, microscopic   18   324   Bennett, John   Distilling by steam   4   105   Bennett, John M   Distilling by steam   4   105   Bennett, John M   Distilling by steam   14   279   Bennett, John M   Distilling by steam   14   279   Bennett, Philip   Loom, weaving, chip   3   83   Bennett, Phineas   Steam generating   6   162   Bennett, Phineas   Saw mill dogs   14   275   Bennett, Phineas   Saw mill dogs   14   275   Bennett, William   Ship's cellars, calking   7   177   Bennet, William   Mill stones, bed   13   258   Bennock, John   Plaining machine   14   272   Benson, Benjamin S   Ram, hydraulic   11   228   Benson, Matthew   Cocooneries, removing the filth from hurdles   5   125   Benson, Matthew   Fenders, fire   5   125   Benson, Page & Hough   Sawing boat oars   14   277   Bent & Bush   Composition for stiffening hats   4   103   Bent, William   Splitting skins   16   301   Bent, William   Splitting skins   16   301   Bent, William   Splitting skins   16   301   Benten, J. C., and H. W. Zimmerman   Washing machine   17   317			= 1	6
Bennett, James   Grates   5   129			= 1	
Bennett, James   Tide mills   11   229				2
Bennett, James H.			1	
Pennett, John H				
Bennett, John H.			1	
Bennett, John M.			_ 1	
Bennet, Philip.		Distilling by steam	4	105
Bennett, Phineas         Steam generating.         6         162           Bennett, Phineas         Raising wrecks         9         199           Bennett, Phineas         Saw mill dogs         14         275           Bennett, Samuel D         Propelling canal boats         7         173           Bennet, William         Ship's cellars, calking         7         177           Bennock, John         Paining machine         14         272           Benson, Benjamin S         Ram, hydraulic         11         228           Benson, Benjamin         Cocooneries, removing the filth from hurdles         3         70           Benson, Joseph         Oil feeders         5         134           Benson, Matthew         Chimney scraper         5         125           Benson, Robert N         Pile driver         9         197           Benson, Page & Hough         Sawing boat oars         14         277           Bent & Bush         Composition for stiffening hats         4         103           Bent, William         Inclined planes, cogs         9         196           Bent, William         Splitting skins         16         301           Bent, William         Splitting skins         16 <td< td=""><td></td><td>Shingle machine</td><td>14</td><td>279</td></td<>		Shingle machine	14	279
Raising wrecks   9   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   199   1			1	
Bennett, Phineas.   Saw mill dogs.   14   275				
Propelling canal boats   7   173				
Bennet, William				
Plaining machine	Dennet William			
Plaining machine	Rennet William		1	
Ram, hydraulic.   11   228			1	
Benson, Benjamin			1	
Benson, Joseph		Cocooneries, removing the filth from	_	
Benson, Matthew	Danson Tassul		1	
Benson, Matthew         Fenders, fire.         5         126           Benson, Robert N         Pile driver         9         197           Benson, Sewall         Washing machine         17         317           Benson, Page & Hough         Sawing boat oars         14         277           Bent & Bush         Composition for stiffening hats         4         103           Bent, Cyrus         Water wheel, sub         11         234           Bent, William         Inclined planes, cogs         9         196           Bent, William         Splitting skins         16         301           Bent, William </td <td></td> <td></td> <td></td> <td></td>				
Pile driver	Rengon Matthew			
Benson, Sewall				
Sawing boat cars.				
Composition for stiffening hats   4   103	Benson, Page & Hough		1	277
Bent, Cyrus       Water wheel, sub       11       234         Bent, William       Inclined planes, cogs       9       196         Bent, William       Mill, sugar       13       258         Bent, William       Splitting skins       16       301         Bent, William       Splitting skins       16       301         Bent, William       Splitting skins       16       301         Benteen, J. C., and H. W. Zimmerman       Washing machine       17       317	Bent & Bush	Composition for stiffening hats		103
Bent, William       Mill. sugar       13       258         Bent, William       Splitting skins       16       301         Benteen, J. C., and H. W. Zimmerman       Washing machine       17       317	Bent, Cyrus	Water wheel, sub		234
Bent, William				196
Bent, William       Splitting skins       16       301         Bent, William       Splitting skins       16       301         Benteen, J. C., and H. W. Zimmerman       Washing machine       17       317				258
Bent, William				301
Benteen, J. C., and H. W. Zimmerman. Washing machine	Bent, William	Splitting skins		_ : :
	Renteen I C and H W 7imme	Washing machine		2 7 7
Bentley, Harmess	Rentley, Harmess.	Chuen	i	317



Patenters.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Bentley, Charles W.	Boilers, steam	6	153
Benton, Benjamin H.	Surveying instruments	8	196
Benton, Caleb and W. A Benton, Ezra R	Grist mill, drivers	3 13	72 254
Benton, H. P	Lamp, lard	5	153
Benton, Levi	Staves, dressing	14	280
Bentz, Jacob.	Boxes, wood for 4	14	266
Bentz, Samuel	Smut machine	1 5	25 141
Berg & Schermerhorn	Cordage, rope yarn	3	70
Berg & Ivers	Copper bolts, ships	2	40
Bergh, Christian.	Dock, dry	9	193
Bergen, Cornelius Bergen, Cornelius	Plough	1	16
Bergen, Cornelius	Loom	3	18 80
Bergen, Cornelius	Loom silk	3	82
Bergstresser, William W		10	213
Berkley William	Cutting cabbages	17	311
Berkley, William Bernard, Benjamin B	Distilling by steam Thrashing machine	1	105 28
Bernard, Joseph	Nails, cutting plates	2	52
Bernard, Phares	Distilling boiler	4	106
Bernard, Phares	Distilling boiler	4	106
Bernard & Soper	Composition, medical	4	102
Berrian & Class	Stoves, &c	6 5	154 145
Berrien, Daniel	Extinguisher, fire	5	126
Berrian, Richard	Wheels and axles, locomotive	10	212
Berrian, Richard, Berry, A. and C	Water wheel, overshot	11	233
Berry, B. F.	Pendulum and lever power Bedstead	13 17	259 307
Berry, Cyrus		12	240
Berry, Eleazer	Washing machine	17	315
Berry and Osburn	Saw mill, steam	14	275
Berry and Rand	Nails and brads, cutting Hides, softening	2	53
Beschormann, Augustus H	Hides, handling	16 16	298 298
Bettis and Gibbs	Stove, cooking	5	139
Betts, Cyrus	Water wheel, tide	11	234
Betts, Henry	Printing both sides	18	327
Betts, Hez	Flax and hemp machine	3 12	73 246
Betts, Mahlon	Steam engine	16	156
Betts and McLean.	Steam engine	6	156
Beverly, Charles F	Straps, fastening, leather	16	301
Beverly, John.	Staves, crossing and chiming Press, hydro mechanical	14 11	280 224
Bevier, Jesse	Thrashing & shelling corn, and grind-	**	247
	ing apples	1	33
Bewey, Eben	Washing machine		315
Bicknell, John	Planing machine, cutters	14	272 252
Biddis, John		13	71
Biddis, John	Paper making	3	85
Biddis, John	Starch, potato		117
Biddis and Bedwell Biddle, William.	Trap	22	117 359
Bidwell, Henry L	Stove, cooking, &c	5	143
Bigelow, Alpheus	Straw cutter	1	25
Bigelow, Elijah A	Teeth engrafting	20	343
Bigelow, Elisha	Nails, cutting and heading Nails, heading	2 2	52 52
Bigelow, Elisha	Steam engine	6	517
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			"

PATENTEES.	inventions or discoveries.	CLASS.	PAGE.
Birolow, Elisha	Grist mill	13	251
Rigelow, Elieha	Loom.	3	8
Bigelow, Erastus B	Coach lace loom	3	6
Bigelow, Erastus B	Loom, power, plaid		81
Bigelow, Erastus B		3	61
Bigelow, Erastus B		3	81
Bigelow, Erastus B Bigelow, Erastus B		3	8:
Bigelow, Erastus B	Loom warps, tension of	3	8
Bigelow, Erastus B			) š
Bigelow, Erastus B	Loom, counterpanes, mounting	3	8
Bigelow, Erastus B	Loom, carpet		84
Bigelow, Erastus B	Loom, carpet		8
Bigelow, Erastus B	Vegeta construction	3	8
Bigelow, George F Bigelow, John	Vessels, constructing		179
Bigelow, Jos			24
Bigelow, Louis	Carriage, steam		15
Bigelow and Brigham			3
Biggins, Henry	Spittoon, design		31
Bills, Artemas.			[ .
Bill and Spalding	Loom, webbing, tape		8
Bule, Keene A	Heat by management of combustion.	5	13
Bille, Keene A	Liquors, drawing and corking Bottles, washing, filling, &c	11	22
Billings, G. W. and John Harrison	Hemp breaking		35
Billings, G. W. and John Harrison	Hemp machine	3	7
Billings, B. J and J. S	Broom corn scraping	ĭ	1 1
Billings, Henry C	Stove covers, transparent	5	14
Billings, J. S. and B. J	Spinning machine		9
Billing, Seraphim	Raising water	11	22
Billings and Harrison	Hemp, rotting	4	10
Bingham, Albert	Bolt, door, operating	2	4
Bingham, Albert	Lock or latch check bolt		5
Bingham, Albert	Latch and lock, door		4
Bingham, James	Buckles, suspender		34
Bingham and Warner	Propelling canal boats		17
Binney, Archibald	Type moulds		32
Binney, Archibald	Type moulds		32
Binney, Archibald	Type smoothing		32
Bird, Fitzgerald	Medicine		11
Bird, George	Smut machine		8
Birdsell, James	Cultivator, teeth		l î
Birkhead, Levin	Springs, wooden		21
Birely, Jos.	. Mill, grain, &c	13	25
Bisbee, Asa.	Power, extending		25
Bisbee, Isaiah	. Spoons, manufacturing		6
Bisbee, John	Lathe, turning		26
Bishop, Albert D	Staves and hoops, splitting		28
Bishop, Charles			24
Bishop, Garry	. Washing machine	17	3
Bishop, Garry	.] Washing machine and churn	. 17	3
Bishop, Joseph S	Straw cutting, hay	. 1	
Bishop, Joseph S	. Cutting leather	· 16	29
Bishop, Luna			2
Bishop, Naphtali			19
Bishop, Nathaniel			3
Bishop, Seth			2
Richan William C	Water wheel	1 11	2

PATENTRES.	INVENTIONS OR DISCOVERING.	CLASS.	PAGE.
Bishop, William	Paper machine	3	86
Bishop and Brooks	Nails, wrought	2	5
Bissel, John B		5	14
Bissell, Levi	Ship's cables, relieving	7	17
Bissell, Levi		10	21
Bissell, Luther	Saw mills	14	274
Bissell, Luther		15	28
Bissell, L., J. Hinman, L. C. Hinman,	Nails, cutting	2	5
and B. Gains	Spinning cotton	3	89
Bissell, L., L. C. Hinman and S. Wilson		3	8
Bissey, Amos	Forge, smith's	2	43
Black, Alexander	Salt manufacturing	4	110
Black, Alexander		5	13
Black, G. W	Saw mill	14	27
Black, James	Steam engine, reacting	6	160
Black, James	Steam engine, rotary	6	16
Black, James.	Air, propelling boats	11	219
Black, James A	Hoe, weeding	.1	12
Black, Jeremiah.	Hydraulic machine	11	223
Black, Jeremiah		11	220
Black, Jeremiah		12	245
Black, Jeremiah.	Cannon, pointing	.19	333
Black, John	Mill stones, dressing	15	289
Black, William	Plough	1	17
Black, William	Plough	1 1	18
Black, William, should be Blake		5	129
Blackall, Joseph.	Screws, cutting	2	57
Blackman, Samuel G		1	27 80
Blackmar, John	Loom, harness for	3	80
Blackmar, John	Loom, harness for		310
Blagge, John	Crackers, cutting	17	344
	Truss	20	104
Blaikee, Robert.	Distilling	4	29
Blair, Henry	Seeding, corn planter	1	29
Blair, Henry Blair, Sherman	Wagon	10	213
	Cushions, spring	17	311
Blair, Sherman	Sofa, elastic spring	17	313
Blaisdell, Samuel	Balance	12	239
Blaisdell, Stephen.	Matches, friction	17	ĩij
Blake, Anson	Saw mill guage setter	14	275
Blake, Edmund.	Paper sizing	3	86
Blake, Edward	Bee hive	i	3
Blake, Elihu	Milk drawing	20	342
Blake, Lemuel W. and George W	Water wheel	11	231
Blake, Lemuel	Types	18	329
Blake, Philos, Eli W., and John A		2	40
Blake, Philos, Eli W., and John A	Castors for bedsteads	2	41
Btake, Philos, Eli W., and John A	Latch, thumb	2	48
Blake, Philos, Eli W., and John A	Lock, door, &c	2	49
Blake, Philos	Brush, tooth	21	349
Blake, P. and E. W	Locks, mortise	2	50
		6	160
Blake, Thatcher.	Hulling grass seed	1	14
Blake, Thatcher.	Press, lever	12	244
Blake, William.	Press, double, foundry	12	243
Blake, William, not Black	Gas burner	5	129
Blake and Cushing	Bedstead key	17	
Blakely, Zerah.	Water wheel	11	230
Blakesley, Merrit	Wheels, felloes, bending	10	213
Blakewell, Thomas P.	Bridges		192
Blanc, Jean	Marsh drainer	9	197
Blanc and Latrobe	Sitting sand and lime	15	290
Blanc and Latrobe	Sifting sand and lime	15	29

PATENTÈRE.	inventions or discoveries.	CLASS.	PAGE.
Blanchard, Abel	Truss.	20	343
Blanchard, Alonzo L	Stove, parior, church.(1841 not 1811)	5	146
Blanchard, Alonzo L	Stove statue, design	5	146
Blanchard, Hiram	Stove, cooking	5	141
Blanchard, James	Window shutter fastening	2	63
Blanchard, Thomas	Hat Bodies, batting	3	76
Blanchard, Thomas	Shearing machine, horizontal	3	88
Blanchard, Thomas	Blocks, ship's sheaves Blocks, ship's dead eyes	7	167 167
Blanchard, Thomas	Blocks, finishing wooden sheaves	7	167
Blanchard, Thomas	Blocks, forming end pieces	7	167
Blanchard, Thomas	Blocks, forming cheeks	7	167
Blanchard, Thomas	Blocks, mortising	7	167
Blanchard, Thomas	Blocks, riveting plank	7	167
Blanchard, Thomas	Blocks, rounding edges	7	167
Blanchard, Thomas	Blocks, tackle, countersinking	7	167
Blanchard, Thomas	Dead eyes, cutting scores	7	170
Blanchard, Thomas	Planking vessels	7	171
Blanchard, Thomas	Steamboat for rapids	7	177
Blanchard, Thomas	Carriages, speed of	10	208
Blanchard, Thomas	Lathe, irregular forms	14	269
Blanchard, Thomas	Saw mill, circular	14	275
Blanchard, Thomas	Stock, gun, turning	19	337
Blanche, Noel	Condensing vapors, distillation	4	10 <b>3</b> 134
Blaney, Benjamin	Ovens	5	146
Blaney, Benjamin	Stoves, non radiating	5.	147
Blank, E. F. & T	Paper leather	3	85
Blauvelt, Abraham	Locks, spiral spring	2	50
Blauvelt, John C	Stone eradicator	9	200
Blauvelt, John C	Car, rail	10	206
Blaylock, Vachael	Saw mills	14	274
Blenis, George O	Cisterns, rain water	11	220
Bliss, Alexander	Balance, platform	12 -	239
Bliss, Jer	Window sash	9	201
Bliss, Jeremy W	Mortising timber	14	271
Bliss, Jonathan	Cock for drawing liquor	11	220
Bliss, Jonathan	Faucet & spiggot	II .	922
Bliss, John and Frederick Creighton	Time keeper, balance	8	187
Bliss, Leonard, assignor to Samuel S. Jef	Dianas ininasis	14	271
feryBliss, Moses B	Planes, joiner's	12	243
Bliss, Moses B	Pressing hay	12	245
Bliss, Moses B	Cider mill	13	250
Bliss, Zenos	Cloth dressing, calendering	3	69
Blocher, John	Seeding corn planter	1	22
Blocksom & Fracker	Salt water pan	4	116
Blodget, Aziel	Washing machine	17	314
Blodget, Eben	Washing machine	17	315
Blodget, Sherburne C	Boots tucking machine	16	295
Blodget & Boynton	Boot legs, turning	16	294
Blood, Amos	Distilling	4	105
Blood, Asa	Tuyere and water back	2	62 127
Blood, Cyrus	Fire place and chimney	5 14	000
Blood & HurdBloomer, Thomas		14	277
Blount and Campbell		===	356
Blue, John		ĩ	28
Blunt, Joseph	Tanning leather.		302
Blydenburg, Samuel	Spinning throatle		93
Blydenburg, Samuel	Candles, dipping	4	100
Blydenburg & Beebe	Clocks	8	183
Dindenham A II-ele	Loom, water, steam	3	83
Blynn, Henry	LOUIL , Water, Brown	3	77

Patentees.	INVENTIONS OR DISCOVERIES.	CLAM.	PAGE
Board, Joseph	Composition for roofs	4	H
Boardman, Luther	Spoons, polishing	2	•
Boardman, Luther(not Board)	Spoons, casting	2	
Boardman, William D	Hone, razor	21	3
Boden, Frederick N	Vinegar, making	4	ĺ
Bodman, L. C. & P	Distilling cordials	4	i
Bodman, Lewis C. & P	Refrigerators, distillery	17	3
Boech, John W	Roofs, metallic	9	9
Bogardus, Abraham A	Tailor's measures	21	3
Bogardus, James	Gold cleaner	2	
Bogardus, James		4	1
Bogardus, James		4	1
Bogardus, James		4	1
Bogardus, James		18	1
logardus, James		8	i
Bogardus, James	Clocks, striking part	8	j
Bogardus, James	Fluids, measuring	11	9
Rogardus, James	Mill, universal	<b>13</b>	9
logardus, James		13	3
logardus, John		3	"
logenrieff, Val		19	3
loggs, John		2	•
Bolitho, Benjamin	Powder and rice mill	19	3
olles, Lemuel	Nails, manufacturing	2	•
colles, Lemuel, Jed. Prescott, and Wm.	,	~	ĺ
A. Bickford	Press, cotton and hay	12	9
colles, William(not Belles)	Trigonometer	8	Ĩ
olton, Amos	Gate, mode of shutting	11	9
Bolton, John	Churn	il	•
olton, John	Hulling clover seed	î	
Bolton, John	Hulling clover seed mill	î	
Bolton, John	Winnowing chaff from straw	il	
Bolton, John	Brick moulding	15	2
Bolton, John, jr	Wagon, hand	10	2
Solton, Samuel	Boiler or heater, pipe or grate	5	ĩ
Solton, Samuel	Heating liquids	5	i
Rolton, Samuel	Propelling boats, steam		ī
Solton, William	Socks, moccasins	4	3
Soltwright & Nathans	Press, cotton	12	2
Bomeisler, Louis	Kiln, lime	15	2
Sond, Daniel H	Shoe, over	16	ŝ
Sond, Ezra	Corn shelling	i	
Sond, Ezra	Corn mill.	13	2
ond, Thomas J	Boats, iron	7	ĩ
oninger, Rudolph & Gustava, (assignees		'	
of Max. Joseph Funcke	Sulphate of alumine manf'g		11
Sonnell, Sylvanus	Saw, circular	.4	27
onnel, Sylvanus	Veneers, shaving	14	2
onney, Josiah	Tanning, &c., hides	16	ŝ
onney, J., Charles Bush and G. B. Lob-	Taming, do., indes	10	-
dell		70	21
onnycastle, Charles	Wheels, car, cast iron	10	19
onnycastle, Charles		9	19
onnycastle, Charles	Roofs, sheet iron	9	90
ooker, George	Press, tobacco	10	24
ooker, William	Threehing machine	12	29
ookman Thomas	Smut machine	1	9
ookman, Thomas	Smut machine	1	
oon, Sanford	Spoons, plating, mill	2	9
ooth, Benjamin W	Rigging, standing	7	17
ooth, Edwin	Bee nive	1	07
cothe, E. & C	Saw, vertical	14	270
MAIN HUTHY I.	Thrashing grain	1	35
Carre	C3:		
ooth, George	Carding wool.	3	6

Patriciae.	MAEMAIONE OU DISCOMBISSO.	CLASS.	På
Beoth, James C	Leather whitening	16	
Booth, J. sen., James Booth, T. Booth,			
and J. Booth, jr	Printing press	18	
Booth, John and William H. Stevenson.	Brick, moulding		l
Booth, Nathan	Cider mill	13	1
Booth, Samuel Booth, Samuel	Bells, bronzing, cow and sheep	2	l
Boot & Lynn	Furnace and fire place	11	
Bootwright, James(not Boatwright)	Plough	5 1	
Borbridge and Martin	Coal sifter, revolving	5	
Sorden, Joseph L	Splints for baskets	22	1
Borden, Thomas	Plough, triangular	ī	
Boring & Jones	Cordage, rope reeding	3	
Bortle, John P	Churn	i	
Boss, James	Pencils, everpointed	18	
Bossert, Chs. and John Schomacker	Piano forte	18	
Boston, Edward	Moulds for stone posts	15	İ
Boston, Joseph	Gas light	4	
Boston, Joseph	Mineral water	4	1
Boston & Bryant	Mineral water, soda fountain	4	1
Bostwick, Gershom	Shearing cloth	3	ļ
Bostwick, Hy	Genealogy & Chronology	8	ì
Bostwick, Sherburn	Washing machine	17	İ
Bostwick & Spencer	Thrashing & smut machine	1	l
Bosworth, Benjamin M	Latch, door	2	1
Bosworth, Benijah	Gold extracting from ore	17 2	1
Bosworth, Nathaniel	Steam engine	1 ==	ł
Bosworth, Zephaniah	Stove, air tight	5	1
Botts, Charles T	Straw cutter		1
Botts, Charles T	Straw cutter	î	1
Boucherie, Antoine	Cordial, gin	1 7	١.
Boucherie, Antoine	Distilling apparatus		ľ
Boucherie, Antoine	Sugar making and refining		
Bouis, John	Cabooses	5	ì
Bouis, John	Cooking apparatus, steam	5	l
Bouis, John	Cooking, generating steam		i
Bouis, John	Furnaces, hot air		l
Bouis, John	Kitchens, summary		Į
Bouis, John	Ovens	5	
Bouis, John	Roofs, covering with tin	9	١
Boulia, Agustus	Color, permanent		
Boureau, Nicholas	Nails, cutting	2	١.
Boureau, Nicholas	Kitchens, steam, for ships		1
Bourguet, François	Wigs, metallic		1
Bourke, Thomas	Oil coloring lemp		1
Bourne, Heman	Oil, coloring, lamp		1
Bourne, Henry	Gold washing		1
Bourne, Henry B.	Life preserver.		1
Bourne, Roswell	Railroads, curved		1
Bouton, A. M. and Andrew Perry	Steam engine, motion changing		1
Bouton, John M			1
Bowen, Ephraim	Carriages for heavy bodies		1
Bowen, Ethan	Spinning machine	3	1
Bower, John	Pipes of clay	15	1
Bowhay, William	Dowelling instrument	14	i
Bowler, Joshua S.,	Boots and shoes	16	
Bowles, Jesse,	Thrashing machine	. 1	
Bowling, Alexander WBowling, William	Thrashing machine	1	1
Bowling, William	Trip hammer	2	1
Bowman, James	· Wagon, manure	. 10	1
Bowman, James T			
Bowne, Rodman	.' rropening poats, norse power	. 7	t

## INDEX.

PATRIFFES.	INVENTIONS OR DISCOVERIES.	CLASS.	PA
Boyce, George D.	Stove, cooking	5	
Boyd, Alexander	Printing calico	3	
Boyd, George C.	Seeding corn planter	ì	
Boyd, James	Hose, fire engine	11	
Boyd, James	Knapsacks, folio extension		
Boyd and Kitchen		1	
Boyden, Alexander	Gun, construction of	19	
Boyden, Benjamia F	Hoe, cast iron	1	1
Boyden, Seth, jr.			
Boyden, Seth	Iron, malleable cast		
Boyden, Seth	Iron, malleable cast		
Boyden, Seth.	Spinning wooland cotton		1
Boyden, Seth			
Boyden, Seth	Steam, applying	6	
Boyden, Seth	Harness, horse blinds		
Boyden, Seth	Shaving leather		1
Boynton, Charles B		2	1
Boynton, Charles B Boynton, John.	Stoves, air heating		
Boynton, John	Straw outling		
Boynton, John			
Boynton, John	Carding engine	3	1
Boynton, John	Carding wool	3	ŀ
Boynton, John	Cards, grinding and straining	3	
Boynton, Nathaniel	Clay, breaking		1
Boynton, Paul	Water wheel	iĭ	
Boynton, Paul.	Water wheel	îî	
Boynton, Thomas	Painting walls	îŝ	
Brackett, Rufus and Henry	Leather, dicing and polishing	16	
Bradheld, Edward	Smut machine	ī	
Bradfield, Edward	Mill. feed	13	
Bradford, Hezekiah	Crane	12	
Bradford, John.	Horse, wheel	13	
Bradford, Merrit.	Stove, pipe and drum	5	
Bradley, George.	Cordage, rope, forming	3	
Bradley, George.	Boilers, pressure of	6	
Bradley, Grove	. Mortising machine	14	
Bradley, Jephtha	Furnace, air heating	5	
Bradley, Leman.		2	
Bradley, Leman.	. Furnace, steam boilers	6	
Bradley, Robert	Press, triple rafter	12	
Bradley, Russel.	Churn		
Bradley, Russel		1	
Bradley, Zalmon T	Spinning wheel	3	
Bradshaw John A	Wheel felloes cutting		
Bradshaw, John A. Bradshaw, John A.		3	
Brady, Elijah			
Brady, Sam.		11	
Bragg, Appleton.		1 7	
Bragg, John.		7	
Brainard, Jeremiah		9	
Brainard, Jeremiah		9	
Brainard, Jeremiah	Wheelbarrows	10	:
Brainard, Jeremiah	Faucets, pate	11	
oramard, Jeremian	Weigh locks	19	
Srainard, John.	Dovetailing and mortising	14	
brainard, M. M.	Gouges, making	9	
brainerd, Roswei	Washing machine	17	
prainerd, W. H., and C. B. Bulkley	Washing machine	17	
Braicy and Dryer	Water wheel	11	- 3
Braley and Welker	Hulling clover geed and rice	1	
Branch, Hardin.	Churn, revolving dasher.	1	



PATRIMUMO.	mymyriche or descovenies.	CLASS.	PAG
Branch, Hardin	Threshing machine	1	
Branch, Hardin	Thrashing machine, flyer, beater	ī	l
Branch, Hardin	Cooking, generating attam for	5	
Branch, Hardin	Augur, turning any number	14	
sranch, Hardin	Staves, blind slits cutting	14	1
Franch, Harden	Redetend factoring	17	
rand, Nathan	Bedstead fastening		١ ١
randon, John	Hoe, necks and dies-for	2	
	Horse power, portable	13	1
randreth, Benjamin	Vegetable extracte	4	
rannan, John	Cutting sausage meat	17	3
ranson, John, jr	Excavating scraper	9	
rant, John G	Coal, mode of conveying	5	
ranwhite, Charles	Composition for tassel moulds	4	
ratt and Gilmore(see Brett)	Nails, horse head, machine	2	1
ratt, Nicholas	Hoops, sawing	14	!
rayton and Green	Straw cutter	1	ı
rayton, William H	Loom, warp from beam	3	
rayton, William P	Spinning cotton	3	
rayton Wm. P. & James Hamilton	Dredging machine	9	
razier, Amable J	Saccharifying rice	4	
razier, Amable J	Saccharifying rye	4	
reant, Germain	Tobacco steamming	22	
reastead, Poter	Paint mill	13	
eastead, Peter	Bedstead, bisected		
eckels, Francis			
reed, Samuel D	Bedstead, sefa		
eed, Samuel D	Hose cloth, gum elastic	111	
	Boots and shoes, soles by caoutchouc.	16	
rees, Ezra	Grist mill	13	
rees, Lot and Ezra	Sleigh shoes	10	
rehore, Benjamin, (should be Crehore.)		14	
reithler, John	Sugar cane grinding	4	1
remler, Fred	Coaches	10	1
remler, Fred	Coaches	10	
reur, Dierck	Seeding, planting machine	1	1
rereton, John	Ranges, cooking	5	i
retney, Henry	Tanning		1
rett, James	Screw wrench	2	ı
rett and Gilmore (see Brau)	Nails, manufacturing	2	1
retzger, Melchoir	Wire gause looms	2	l
rewer, Daniel	Ruling machine		
ewer, Henry	Dramers	21	
ewer, Richard	Furnace, tuyeres	2	
ewster, Abel	Vitriolic test for bank bills	4	l
ewster, Abel		7	
ewster, Abel	Counterfeit perventing		
	Counterfeit, preventing	18	
ewster, Abel	Dies	18	l
ewster, Frederick	Harrow or polyshare	1	1
ewster, Frederick	Plough, polyshare	1	1
ewster, Gilbert	Spinning machine	3	
rewtser, Gilbert	Spinning roping		1
ewster, Gilbert	Spinning, speeder	3	1
rewster, Gilbert			١
ewster, Gilbert		3	1
rewater, Gilbert	Spinning wool, rotary motion	3	1
rewster, G., G. Trumbull & J. Mathes.	Spinning cotton and wool	3	
rewster. Iram	Churn	1 1	1
rewster. Iram	Churn	1	1
rewster, Iram	Churn		1
rewster. Jonah	Boots, crimping	16	
rewater, L., adm'r of Gilbert Brewater.	Spinning roping	3	l
rowster, Sam'l	Grist mill	13	
rewster, Samuel	Saw mill, elevating	13	
rewster, Walter	Water wheel flume	14	
· ~ ~ ~ · · · · · · · · · · · · · · · ·	. ** GLUI W HUUI, MUHIU	111	1

PATENGRAP.	MVENTIONS OR DISCOVERSED.	CLASS.	PAGE
Bridewell, E	Saddles, side	16	93
Bridges, Albert and Charles Davenport	Carriages, railroad	10	91
Bridges, Jonathan	Grinding cylinders	13	21
Bridgman, George D	Wheels to prevent falling	10	21
Brigham, Jonas C	Mead, sarsaparilla		31
Bright, Goodown	Trues uteri	200	34
Bright, Jacob	Cock		95
Briggs, Cornelius	Extension tables	17	31
Briggs, Cornelius	Tables, extension	17	31
Briggs, Daniel	Loom		
Briggs, Eliakim	Horse power		24
Briggs, Elisha			2
Briggs, Elisha	Wooden ware		9
Briggs, James(should be Biggs)			9
Briggs, J. B., L. C. Carner & J. C. Carner			2
Briggs, John C	Pegs, shoe, making	14	27
Briggs, Joseph	Flax, breaking and dressing, and		
Duines Transk	thrashing and grinding		.
Briggs, Joseph	Saw mill head block		2
Briggs, Joseph, jr	Engine, fire	111	25
Briggs, Joseph D	Corn sheller	1	l.
Briggs, Nathaniel	Window sash spring bolt	2	
Briggs, Nathaniel	Window shutter fastening	2	. ~
Briggs, Nathaniel	Water tables for doors		2
Briggs, Nathaniel	Washing machine		3
Briggs, Noah	Kake, horse		1
Briggs, Olney	Saddles, side		25
Briggs, S., sen., and S. Briggs, jr	Nails, manufacturing		
Briggs, Samuel	Steam, applying		15
Briggs, Samuel	Steam engine	6	13
Briggs, Samuel	Brick press	15	29
Briggs, Shepard,,,	Loom.		
Briggs, Thomas	Corn, grinding in ear		2
Briggs and Carpenter		1	1
Briggs and Steele,,,,,	Steam engine		1
Bringhall, J. and T. Keyes, jr Briscoe, Benjamin		8	1
Bristol, Abner	Spark catcher	1	•
Bristol, A. G	Stove, design	1 -	1:
Britt, Samuel A			1 6
Brittan, Ira W			20
Brittain, Wm. and Robert	Flax and hemp dressing		7
Brittain and Silvers	Flax or hemp gathering	ĭ	
Brittingham, A. P. and E.	Files, renewing old	2	
Britton, Eben	Bee hive, &c	î	1
Britz, Adam	Bruising and cutting substances		2
Broad, Aaron			7
Broad, Aaron	Wheel boxes and axles		2
Broad, Aaron			2
Broad, Aaron	Ramrods, screws, knives and forks		3
Broad, Joseph			2
Broad, Joseph	Dye wood, rasping		ã
Brodhead, James F			2
Broadmeadow, Simeon	Furnace, shear steel.	2	7
Broadmeadow, Simeon,,	Furnace, smelting ore		
Broadmeadow, Simeon	Iron, wrought from ore	. 2	4
Broadmeadow, Simeon	Steel manufacture		
Broadmeadow, Simeon			1.
Broadway, Abel	. Churn	. 1	
Brockway, J	Speons, silver, mill.	. 9	
Brockway, J. C. M	Pills, antidyspeptic	. 4	11
Bromwell, Isaac	Winnowing grain	-1 1	3
Bromwell, Jacob	Boats, canal.	7	16
		. 11	95

		-	
PATEMPEEN.	SHVENTIONS OF DISCOVERIES.	CI.ABS.	PAGE.
Brooks, Adam	Silk winding	3	88
Brooks, Adam	Silk gimp winding	3	88
Brooks, Adam	Spinning silk	3	99
Brooks, Artemas L	Planing machine	14	279
Brooks, Benjamin		3	81
Brooks, EbenezerBrooks, Guy	Striker, blacksmith's	3	61 98
Brooks, James S. O	Spinning wheel	4	115
Brooks, Jonathan	Thrashing, &c	i	28
Brooks, Oliver H	Washing machine and churn	17	318
Brooks, Oliver and James A. Sloan	Hats, cassimere	- 8	77
Brooks Samuel	Currier's brife and grinding	3	76
Brooks, Samuel	Currier's knife and grinding Screws, wood	16 2	296 58
Brooks, Theodoric	Pumps	ıĩ	224
Brooks and Eames	Carriage	10	207
Brookfield, Aaron	Raising water for mills	11	228
Brookfield, William	Diving, mode of	.7	170
Broom, Abel	Brick, moulding and pressing   Rheumatic lineament	15	286
Bronaugh & Talbott	Refrigerator	17	115 313
Bronson, Heman	Pump, wind power	īi	227
Bronson, Salmon	Loom	3	80
Bronson, Samuel A	Washing machine	17	315
Bronson, Zenos	Press, cotton	12	243
Bronson, Zenos  Bronson and Curtis	Hulling rice and coffee	1 8	15
Bronwer, Samuel	Water mill	ıî	186 233
Bronwer, Samuel	Brick making	15	286
Broughton, Peter	Winnowing grain	1	35
Broughton, William	Grinding mill	13	252
Brower, Issac D	Weather strips for doors	14	282
Brower, Jacob W	Shovel, sheet iron	1 2	24 59
Brower, William	Socks, over shoes	21	353
Browne, Alexander	Salt by escape heat from steam engine	4	116
Brown, Alexander	Heat, application	6	154
Brown, Benjamin	Planing machine	14	272
Brown, Benjamin F Brown, Benjamin H	Steam engine, hydraulic	12	244
Brown, Benjamin H	Brick mould	15	158 286
Brown, Benjamin H	Brick press	15	287
Brown, Benjamin H	Brick press, dry clay	15	287
Brown, Beriah	Picker, wool.	3	86
Brown, Charles W	Loom, water	3	83
Brown, Charles W	Spinning hemp Tonguing and greeving	3 14	90 281
Brown, Charles G	Brick press	15	297
Brown, Charles and F. S. Crans	Mowing grain, and cleaning	i	15
Brown, Christopher F	Gas metre.	4	108
Brown, David, jr	Winding cotton	3	95
Brown, David	Press, tobacco	9	193
Brown, Edward.	Locking number of drawers	12	244
Brown, Edward	Lamps, reflector	5	133
Brown, Edwin	Piano forte	18	325
Brown, Edwin	Piano forte	18	325
Brown, Elisha	Threshing machine	1	31
Brown, Elisha	Protractor, facilitating	10	186
Brown, Enos.	Distilling and steam	10	212 105
Brown, Ephraim	Horse mill	13	255
Brown, Ezra	Loom, wire harness	3	84
Brown, Ezra	Loom, wire harness	3	84

. Patentana.	enventions or discounties.	CLASS.	PAGE.
Brown, George	Spinning roping, flax	3	992
Brown, George	Saw mills	14	274
Brown, George W	Stoves, Franklin	5	145
Brown, G. McA	Hulling machine	1	14
Brown, Gideon	Inclined planes	9	196
Brown, Harvey	Plough, combined	1	19
Brown, Hiram	Propelling wheels, boat	7	176
Brown, James	Grammatical key	18	322
Brown, James	Hat, fireman's	21	359
Brown, James S	Boring groove for flier of speeders	2	40
Brown, Jer	Constructing ships	7	169
Brown, Joel	Combs, cutting teeth	21	351
Brown, John	Churn	1	6
Brown, John	Corn sheller	1	8
Brown, John	Thrashing grain	1	28
Brown, John	Razor, manufacturing		56
Brown, John	Spinning cotton	3	89
Brown, John	Spinning machine		90
Brown, John	Spinning machine		90
Brown, John	Spinning machine		90
Brown, John	Spinning machine		90
Brown, John	Spinning roping, hand	3	92
Brown, John	Spinning roping, cotton and wool	3	92
Brown, John	Spinning roping, wool and cotton	3	92
Brown, John	Spinning wheel	3	93
Brown, John	Gast of sail vessels	7	170
Brown, John	Combs, manufacturing	21	350
Brown, John	Vessels, raising buoys	7	178
Brown, John	Saw, circular		273
Brown, John B	Club-foot, apparatus for	20	342
Brown, John David	Chairs, rocking and castor	17	310
Brown, John M	Steering wheel	7	178
Brown, Josiah, (assignee of Theophilus		1	
Goodwin)	Alarm, fire	8	183
Browne, Josiah	Winnowing machine	1	34
Brown, Lorenzo D	Furnace, tuyeres	2	44
Brown, Lorenzo D	Paper sizing	3	86
Brown, Levi	Wheels, boxes for	10	212
Brown, Matthew D	Boats, ferry	7	168
Brown, Matthew D	Water wheel, hinged	11	232
Browne, Peter A	Piston for pumps	11	224
Brown, R. B	Springs, carriage	10	210
Brown, Robert S	Buttons, whip heads	16	295
Brown, Samuel A	Truss, hernia	20	344
Brown, Samuel G	Spark arresters	6	155
Brown, Samuel H	Punching metal	2	56
Brown, Samuel	Gas engines	6	154
Brown, Sidney B	Uniting leather by pegs, metal or	•	ł
	wooden	16	303
Brown, S., E. West, and T. West	Distilling by steam	4	105
Brown, S. H., E. Brown, and Henry		1	
Whitman	Boots and shoes, hair on	16	295
Brown, Simeon	Buildings, moving		240
Brown, Thomas		1	17
Brown, Thomas		1	94
Brown, Thomas	Electrical apparatus	8	184
Brown, Truman B	Winnowing machine	1	34
Brown, Valentine	Canal lock gate	9	193
Brown, Valentine	Canal lock indicator.	9	193
Brown, William	Plaster mill	13	259
Brown, WilliamBrown, William	Hides, handling	16	297
	Hides handling reel	16	297
Brown, William,			
Brown, William	Splitting skins.	16	301

PATEIRIBA	ENVENTIONS OR DISCOVERSE.	CLASS.	PAGI
rowne, William	Tanning leather	16	30
Brown, William	Tanning	16	30
Frown, William	Tan vats	16	3
Frown, William	Trunks, valises	16	3
Frown, William F	Water wheel	11	2
Frown & Barker	Wheel, felloes, cutting	10	2
rown & Farmer	Shoes, horse	ž	~
rown & Hicks	Carriages	10	2
rown, E., and A. Keith	Churn	ĭ	\ ~
rown & Murphy	Propelling wheels, horse boats	7	1
rown & Robinson	Bolt rack, deer	2	1
rown & Robinson	Locks	2	1
rown & Robinson	Lightning rods, securing	8	1
rown & Robinson	Rail road	9.	i
rown & Robinson	Window shutter, fire proof	9	2
rown & Standish	Spinning throstle, frame	3	, ~
Frownell, Joseph	Angur	1	2
rownell, Thomas	Pumping, wind power	ii	2
Frowning, Samuel	Magnetic cylinder	8	ì
rowning, Samuel	Magnetic cylinder	8	1
rownson, Abm	Shaving and smoothing wood		2
Broyles, Cam	Power, propelling by weights	13	9
Proyles, O. R	Carriages, disengaging horses	10	1 5
ruce, Aaron F	Hemp and flax break	3	
ruce, David	Types, casting	18	3
Bruce, David, jr	Types, casting	18	3
Bruce, David, jr	Types, casting, printers		3
Bruce, David, jr	Types, smoothing sides		1 3
Bruce, George	Letters, shaded		3
Bruce, George	Types, music		1
Bruce, George	Types		1 3
Bruce, John	Barrels, gun, scarf	19	1 3
Bruce, John and Charles	Crackers, cutting	17	1 :
Bruff, Benjamin	Raising vessels' anchors	7	1
Bruff, John	Chimney, cleaning	5	] ]
Bruff, John	Saw mills		5
Bruff, Thomas	Spoons manufacturing	2	1
Bruff, Thomas	Window cleaning	17	3
Bruff, Thomas	Shot, manufacturing by pressure	19	1
Bruff, Thomas	. Shot, manufacturing by pressure		
Bruff, Thomas	Teeth extracting		1
Bruff, Thomas, sen			
Brumbley, Daniel	Bathing apparatus		1
Srundage, Henry B	Garments, measuring		1
Brundred, Benjamin	. Spinning throstle		1
Brundred, Benjamin			1
Brundred, Benjamin	. Spinning throatle frame		}
Brundred, Benjamin	Blower, spiral core		
Brundred, Benjamin	. Spinning cotton, spindle	. 3	Ι.
Brunell, Mark J	Power, obtaining by fluids	11	1
Brunell, Mark J		- 11	
Brunell, Mark J			1
Brunell, Mark J	Ruling		1
Bruner, J. H. and R. M. Thompson			
Brunier, Louis			1
Brunier, Louis			
Bruner, John H			
Brush, John C	Fire place, close and open	5	1
Brush, John C		. 5	1
Brush, Mary		- 21	1
Brushnell and AltofferBrusster, Samuel C			1
Brutus, Wm			
	.: A CHO. DERMENTO	. 10	

Patements.	MVENTIOMS OR DISCOVERING.	CLASS.	PAGE.
Brux, Albert	Dock, floating, dry	9	193
Bryan, Elijah	Steam engine, rotary, and water wheel	6	161
Bryan, Elijah	Teeth extractor	20	343
Bryan, Elijah	Propelling vessels at sea	7	176
Bryan, John P	Cane cutters	1	4
Bryan, John P	Cane coverers	22	357
Bryan, John	Saddle trees	16	300
Bryan, T. and W	Silk staining and printing  Napping and brushing cloth	3	116
Bryant, Eb	Dies, moulding founder's	2	84 41
Bryant, Eb	Propelling rowing machine	7	175
Bryant, Eb	Engine, fire	ıi	221
Bryant, Eb	Grist mill	13	959
Bryant, Isaac C.	Furnace, iron		44
Bryant, Jehiel and John	Hats, manufacture	3	77
Bryant, John	Napping, shearing, and brushing	3	84
Bryent, Walter	Stove, cooking, anthracite	5	149
Bryant, William	Bee hive	1	3
Bryant, William	Plough	1	18
Bryant, William	Spinning cotton	3	89
Bryant, William.	Sinning roping	3	91
Bryant, William	Water, supplying houses	11	229
Bryant, William	Saw mills	14	274
Bryant and Hiett	Car, railroad	10	206
Bryce, Archibald	Water wheel, reaction	11	234
Bucey, Joseph	Carriage, gun, ship	19 12	334 245
Buch, John		1	17
Buchanan, Jos.	Steam engine	6	156
Buchanan, Ryburn	Bolts, flour	13	250
Buchenberger, A		17	311
Buck, Darius		5	140
Buck, David S	Winnowing machine	i	34
Buck, E., H. Crehore, R. Jerry. and A.		-	
Bayard	Dock, elevating	9	193
Buck, E., assignee of Peter Lear	Propelling paddle wheels	7	174
Buck, Erastus	Stove, cooking	5	141
Buck, Henry A	Smut machine	1	24
Buck, Henry A	Smut machine	1	24
Buck, James	Door fastener	2	41
Buck, Joseph T.	Boots, cutting uppers	16	293
Buck, Reuben	Churn	1 5	107
Buck, Reuben	Washing machine		127 314
Buck, William	Butter, working, and curd	i	317
Buckelew, James	Spikes, nails, clinching	_	60
Buckingham, David	Winnowing clover seed, &c	ĩ	34
Buckminster, William	Gate for water wheels	11	222
Buckland, Charles	Corset rings, grooves	21	351
Buckles, William.	Hats, water proof, stiffening	3	78
Buckley and Norton	Shears, circular	2	59
Bucklin, Isaac B	Stove, cooking, milway	5	144
Bucklin, Moses	Pumps,	11	295
Bucklin and Jacobs	Tunnelling rivers	.9	201
Buckman, William	Washing machine		. 314
Buckminster, William.	Rake, hay	1	21
Buckminster, William	Seeding all kinds	1	22
Bucknell, Benjamin		14	272
Budington, Theodore	Stove, cooking	5	139 296
Buel, Abel B	Harness, check hooks	16 2	62
Buel, E. H	Power, concentric	13	259
Buel, Samuel	Boats, flat and keel	7	168

Pat <b>en</b> tes.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Buffum, Arnold	Carding hats, fur and wool	3 ·	60
Buffum, Arnold	Hats, fur, preparing	3	7
Buffum, Arnold	Steam engine, rotary	6	161
Buffum, Arnold	Boots and shoes, water proof	16	295
Buffum & Kelly	Hats, water proof, elastic	3	78
Bulkley, Chauncey	Corn sheller	1	8
Bulkley, Chauncey	Hoe, cast steel	1	1:
Bulkley, Daniel	Water guard for doors	17	316
Bulkley, Elizabeth H	Shovels, scythes, &c., cast steel	2	59
Bulkley, M. Brook	Furnaces for anthracite	5	128
Bulkely, Ralph	Fireman, machine, protecting	5	120
Bulkley, Ralph	Boilers, steam engine	6	15:
Bulkley, Ralph	Boilers, steam safety	6	153
Bulkley, Ralph	Steam engine	6	150
Bulkley, Ralph	Life preserver	7	17
Bulkley, Ralph	Propelling, oblique paddle	7	173
Bulkley, Ralph	Propelling wheels, boats	7	176
Bulkley, Ralph	Dock, dry	.9	193
Bulkley, Ralph	Hose, fire, stopping breaches	11	223
Bulkley, Ralph	Water wheel, oblique	11	233
Bulkley, Ralph	Wheel chain, right and left	13	261
Bulkley, Wm. and Otis M. Inman	Tin and metals, cutting	2	62
Bull, Aaron	Cordage, tow line	3	7]
Bull, Aaron	Tow line for boats	.7	178
Bull, Aaron	Bark mill	13	249
Bull, Aaron	Grain, batting and cleaning	13	252
Bull, Aaron	Washing machine	17	315
Bull, Benjamin	Balance, platform	12	239
Bull, Benjamin	Weighing canal boats	12	245
Bull, J. H. and R. H	Balance, spring	12	240
Bull, Mordecai	Shovel scoop	2	59 29
Bullard, C., J. Gay, and Ira Draper Bullock, S. W	Press, cotton, hay	12	243
Bullock, S. W	Toggle joint, adjusting	12	245
Bullock, William	Plough	î	18
Bullock, William	Press, cotton and hay	12	243
Bullock, William	Press, cotton	12	243
Bump, Jacob	Cement for covering buildings	4	101
Bump, Lewis B	Saw, cylindrical	14	279
Bunce, Elisha	Seeding corn planter	ì	20
Bunker, Gorham	Carriages, impeding descending	10	206
Bunker, Zenos	Jack screw, wooden	12	240
Bunnell, Daniel	Stone, facing	15	290
Bunnell, Daniel		15	290
Bunnel, Isaiah		1	24
Bunnel, Levi C		2	56
Burbank, Gardiner		3	86
Burbank, Isaac	Paper making	3	85
Burch, John		1	24
Burch, John	Cooking by reflection	5	120
Burch, John	Stove, cooking	5	144
Burch, William S	Chimney tops	5	12:
Burden, Henry		2	44
Burden, Henry		2	46
Burden, Henry	Nails and spikes	2	54
Burden, Henry	Nails, wrought	2	. 54
Burden, Henry	Puddle balls, &c	2	56
Burden, Henry	Shoes, horse	2	59
Burden, Henry		2	60
Burden, Henry		3	73
Burden, Henry	Constructing steamboats	7	169
Burden, Benjamin C	Victualler, economical	5	147
Burdick, Alden	Boots, manufacturing	16	294
Burdick, Francis		3	72

Pat <b>entak</b> a.	ENVENTIONS OR DISCOVERSES.	GLASS.	220
erdick, Francis	Spinning roping	3	
Burdick, Jason L		5	1
lurganzio, Eugene		11	9
urger, Henry			9
Surgess, Joseph B		21	3
Burgess, Phineas			9
Surgess, Tristram and Simon	Hoone twee making	14	9
lurgess, William			1
Surgess & Baldwin	Thrashing machine	1	١.
Surgin, G. H			1 5
urhyte, Tunis J	Shingle machine		1 2
urk, William	Propelling boats	7	1 1
urk, William	Horse power, portable	13	
urke, Aaron			
urke, Henry			1
urke, Henry		1	1 :
urley, Nathaniel			
urling, Benjamin	Stump extracting		1
urnap, Caleb B			
urnap, Caleb B	Veneers, sawing		1
urnap, Lucy			1
urnell, Levi	Stove, cooking		i
urnell, Levi	Boilers, steam engine	6	i
arnell, Levi	Propelling canal boats	7	1
urnell, Levi	Inclined planes, railroads	9	1
urnett, James	Washing machine		1
urney, John,			1
urnham, A., and Thomas S. Barnum	Screws, manufacturing		1
urnham, George			Ì
urnham, George			1.
	Inkstand		
Surnham, Hiram	Oakum, picking		1
urns, Robert			1
urnham, Hiram			i
urns, R. D	Refrigerator	17	i
urns & Walter	Cutting sausage meat	17	1
urnwill, Mich. H	Springs, carriage	10	Ι.
urr, George			1
urr, James			
arr, Oliver C	Loom		1
urr, Samuel J	Dams		İ
urr, Thomas C			1
urr, Theodore			
ur, Theodoro	Bridges		1
urr, Theodore	Bridges		1
urr, Theodore			1
urr, William G		14	1
urrall, Edward	Heat to steam engines	6	
urrall, Thomas D	Corn sheller	1	1
urrall, Thomas D	Hulling clover seed	Ī	1
urrall, Thomas D	Ploughs, wheel	Ī	I
urrall, Thomas D	Sceding corn planter	Ī	1
urrall, Thomas D	Thrashing machine	l i	1
orrall. Thomas D	Thrashing and winnowing wheat, &c.	li	1
urrall Thos. D	Stove, cooking	5	1
urrall & Axtel.	Horse power	13	1
urrington Tocanh	Sewing leather, clamp	13	
miling our, Jusciale	Clocks		1
UFFIL & DURUCK,	Clocks	_8	1
urrows, Joseph H	Mill stones	13	}
urt, David	. Hydrants	- 11	1
ort, Enoch	.¦ Churn	1	1
uri, Enocn	Loom	3	1
kurt, Enoch	Loom, stop apparatus	3	:
art. Enoch	Rags, dusting	3	1
,	-!		ſ
Burt, Enoch	Shaving cloth	3	1

			· · · · · ·
PATERSON.	INVENTIONS OR DISCOVERNIS.	CLARS.	PAGE.
Burt, Enoch	Steam engine	6	156
Burt, E., O. D. Boyd, and A. H. Boyd	Loom power, check and plad	3	81
Burt, Henry		3	79
Burt, Henry	Mill wheels, regulating	13	257
Burt, John, jr	Water guard for doors	17	318
Burt, Jonathan & E. Smith	Shingles and barrel heads from steamed		
	_timber	14	278
Burt, Jonathan & E. Smith	Staves, cutting	14	280
Burt, Morris	Dying hats	4	107
Burt, Wm. A	True meridian finding	8	187
Burt, William A	Typographer	18	329
Burt, William	Napping cloth	3	84
Burt and Carriel	Rags, dusting	3	87
Burtis, B. G. and Gershom	Butter making	1	` 4
Burtis, William	Suspenders, manufacturing	2	354
Burton, James M	Ventilator	11	229
Burton, William, jr	Washing machine, steam	17	318
Bury, Richard	Pinno forte, glass strings	18	326
Busby, Chas. A	Water wheel	11	230
Buasey, William C	Excavator	9	195
Bush, Fenner, and Pratt	Gridirons	5	130
Bush, John	Shingle machine	14	279
Bush, Lonson, admin'r of Isaac Lowell,			
(not Rush)	Water power to extinguish fires	11	229
Bush, Oliver and Charles H	Gate, liquor	11	222
Bush, Rosswell	Stove, cooking	5	141
Bush, Thacker C	Seeding corn planter	1	22
Bush, Timothy, jr	Forges, backs	2	43
Bush, T. V	Croup in poultry, curing	20	349
Bushnell, Benj., A. R., and P	Shingles, shaving	14	279
Bushnell, Elisha	Water wheel	11	230
Bushnell, Horace	Stove valve	5	144
Bushnell, Howlett	Comba metallic	1 21	350
Bushnell, Nathaniel	Combs, metallic	21	350
Bushnell, Nathaniel	Combs, wooden		351
Bushnell, Samuel, 2d	Churn	17	316
Bushnell, Samuel, 2d	Washing machine	îi	228
Bushnell & Altoffer		2	47
Buskark, John V	Iron, cutting and punching	ĩ	14
Buskey, Joshua M	Hulling rice	2	= = =
Butcher, RobertButcher, William	Spoons, manufacturing	5	60 138
	Boring posts	14	266
Butler, Anthony	Hemp breaker	3	79
Butler, Constant B	Cooking machine	5	126
Butler, FredButler, Henry T., ass'ee of Laban Eddy.	Cooking stove	5	141
Butler, James	Wharves, constructing	9	201
Butler, John and Joshua	Plough, bar share	ĭ	19
Butler, Josiah	Tire, bending	10	211
Butler, Lester	Winnowing wild peas from grain	ī	36
Butler, Thomas J	Wheel hubs, cutting seats	10	214
Butler and Hinckley	Tire, bending	10	211
Butler and Rice			
Butrick R. P.	Stove, cooking, railway	5	144
Butrick, R. P	Railroad key	9	196
Butterfield, Elon B	Fire arms, many chambered	19	334
Butterfield, George	Blinds, window	9	191
Butters, Joshua	Splitting leather		301
Butterworth, J	Cards and can hooks, bending	3	68
Butterworth, Joshua H	Locks, permutation	2	50
Button, Charles and Harrison G. Dyar	Lead, white	4	110
	Title	3	
Button, Richard	rax and nemp machine	3	75
Button, Richard	Spinning mule, drums	3	91

PATROTES.	MVERTIONS OF DISCOVERIES.	CLASS.	PME.
Butts, Her	Press, wheel	19	26
Butte, Jehiel		1	33
Butts, Lorin	Power, applying	. 13	25
Byington, Aaron	Carpet, felt	3	Q
Byington, Benijah		4	113
Byington, Jared	Fork, pitch	1	r
Byington, Jared		2	5
Byington, Jared	Nails, heading	2	5
Byram, Robert J	Lock, door, spring catch	. 2	5
Byrd, George J. and Peter Milne	Bathing apparatus	- 20	34
Buzzell, Abel H	Tanning sole leather	- 16	. 30
Buzell, John D	Granite, cutting	15	28
Bazell, John D	Marble, dressing	15	26
Cabell, John J	. Salt, boiling	4	· 13
Cabell, John J	Salt, manufacturing	4	11
Cady, Asa	Thrashing and shelling corn	1	1 3
Cady, Eleazer			24
Cady, Eleazer, jr			22
Cady, Pascal	. Washing machine	17	31
Cahart, Jeremiah (should be Carhart)	. Musical instrument, bellows	18	; 39
Cahoon, Thomas	. Flax and hemp machine	3	7
Cahoon, Thomas	Boats, ferry	7	16
Cahoon, Thomas	Weighing goods on boats	12	. 24
Cahoon, Thomas	. Saw, cross cut	14	27
Cahoon, Thomas		14	27
Cahoon, Thomas	Flax and hemp machine	3	7
Cahoon, Thomas	Press, screw	12	94
Cahoon, William	Washing machine	17	31
Cairou, John		4	1 16
Calderhead, Alexander		3	! 8
Caldwell, Andrew		3	9
Caldwell, Henry		5	14
Caldwell, John. (not Gildwell)		11	23
Onldwell, Robert		16	, 25
Caldwell, Timothy	Brick, fire proof	15	28
Caldwell and Batterman	Tobacco, manufacturing	22	35
Call, Amos	Latches, night	2	4
Call, Henry C	Harness, horse collars	16	29
Call, Isaiah	. Saw mills	14	27
Callihan, Otho W. S		16	29
Calimont, James M		5	13
Calvert, Francis A		3	•
Calvert, Francis A	Wool combing	3	9
Calvert, Francis A	Wool combing	3	9
Calvert, Francis A		3	94
Calvert, Francis A		3	9
Calvert, William W		3	9
Calvert, Wm. W. and Alanson Crane		3	94
Calvert, W. W., R. Southwick, and A		_	
Calver, Benjamin	Spinning wool	.3	94 251
Callender, Elisha		13	185
		8 7	
Callender, Norman		2 , 4 ,	47 110
Cameron, F. G			246
Cameron, George		12 6	161
Cameron, James.		20	343
Camp, Henry W	Store engling	20 5	139
Camp, Henry W	Store cooking	5 ,	141
Camp Herskich	Printing press	18,	398
	LIMMINE VICORIA A A A A A A A A A A A A A A A A A A	10 '	330
Campbell, Asa	Loom	3	79

			-
PATRIMINA.	inventions of discor <del>ume</del> .	CI,ASS.	PAGE.
Const. II. Pul	Ś		
Campbell, Ethan		6	117
Campbell, Ethan		21	153 351
Campbell, George	1	22	× 359
Campbell, H. R		6	158
Campbell, Harvey W		9	196
Campbell, John	Hulling rice	1	14
Campbell, John A., M. D	Truss, prolapsus uteri	20	345
Campbell, John R			170
Campbell, J. R. and H. C		2	49
Campbell Peter P and Datiel D agrice		18	324
Campbell, Peter P. and Daniel D., assigness of Abraham T. Mixsell		11	225
Campbell, Robert		13	255
Campbell, William		2	39
Campbell and Withington		9	194
Cande and Toucey		1	30
Canfield, Augustus		9	192
Canfield, Jacob		11	224
Canfield, Norris L		4	197
Canfield, Richard		14	25
Canfield, Russell			277
Cannon, George		1 -	63
Cannon, John			72
Cannon, Morris	Ague specific		99
Cannon, William P			18
Cantelo, William J	. Corsetts		351
Cantelle and Kerrison	Collars, Belvidere		350
Cantelo and Kerrison	Stock, jubilee		353
Canviss, Edward M	1		350
Capen, Edmund	Distilling still		106
Capron, O. H. and G. Barton, jr Carbery and Tatham			211 336
Carbonel, Antoine			287
Carbonel, Antoine	. Moulds, sugar		290
Card, Charles V	· Pump, frictionless	11	226
Card, John	Smut machine		24
Card, Joseph and G. Newell		1	20
Card, William J		1 44	
Carley, William		14	273
Carhart, Jeremiah, see Cahart, page 324		14	007
Carleston, Ebenezer and S Whiting jr . Carleton, George W			267 111
Carleton, Jedediah	. Matches, friction, paste	1 -	77
Carlton, Michael			335
Carlisle, Chas. and Edwin Estabrook		13	258
Carlisle, Josiah C		3	69
Carlisle, Josiah C		5	134
Carll, John	. Thrashing grain, cleaning flax		18
Carlock, William			78
Carlock, William		21	353
Carman, Aaron.			19
Carman, Aaron	Ruckles outling and finishing	22	358 40
Carman, Luther	Threshing machine	ĩ	31
Carman, Luther	Steam engine, rotary	6	160
Carman, Luther	. Press, inclined friction roller	12	244
Carmichael, Dan. and Jason C. Osgood.	. Excavating earth	9	195
Carmichael, William	. Hoe, horse, iron	1	12
Carmichael, William	. Spinning roping	3	92
Carmichael, William M	. Stoves	5	136
Carnagy, John	Pener moulds	111	232
Carnes, John	. raper mounus	,i <b>3</b>	86

PATENTANO-	INVENTIONS OR DISCOVERED.	CLASS.	PAGE.
Carothers, John	Plough	1	17
Carpenter, Aaron B	Doors, &c., hanging	9	194
Carpenter, Bailey	Plough share	1	21
Carpenter, Daniel	Sleighs	10	210
Carpenter, Daniel	Brick press	15	287
Carpenter, E. W	Grooving plane	14	268
Carpenter, Emanuel W	Plane, screw, arms	14	271
Carpenter, F	Steam engine, retary	6	160
Carpenter, Ira	Lathe, cutting		269
Carpenter, John B	Press, lever, tackle	12	244
Carpenter, Luman, Oswego, N. Y., Dec.			
31, 1842, omitted	Copying machine	18	322
Carpenter, Michael	Corn sheller	1	8
Carpenter, Michael	Corn shelling		9
Carpenter, Thomas, 2d	Thrashing machine		30
Carpenter, Townshend	Smut machine	1	23
Carpenter, Warren	Corn sheller	1	9
Carpenter, Warren	Corn hulling	1	8
Carpenter and Roe	Distilling		104
Carr, Charles	Lamps for turpentine		139
Carr, Charles	Lamps for turpentine	5	139
Carr, Charles J. and Andrew Smith	Printing press, cylinder		397 139
Carr, George			162
Carr, William	Steam generating		179
Carr, William	Bread making		309
Carr, Wm. H., ass'nee of T. Shepherd	Hinges, butt		46
Carr, Shannon and Carr	Loom, fish net	3	80
Carrell, Anthony C	Churn	ĭ	~
Carrel, John	Stirrups, saddle	2	61
Carriel, George	Rags, cleaning	3	87
Carriel, George	Rags, cleaning	3	87
Carrier, Omri	Distilling	4	104
Carrington, James	Coffee mill	13	250
Carrington, James	Ruler, parallel	18	398
Carrington, Jonathan	Scale board, cutting	14	277
Carrington and Ives	Combs, twinning		351
Carroll, Michael	Kiln, charring coal	5	131
Carry, Hez	Distilling by steam	4	105
Carsley, Seth, 2d	Lasts	14	268
Carsley, William	Harpoon	7	170
Carson, Adam	Gold, separating	2	45
Carson, James	Press, cotton	12	249
Carson, Samuel	Cament for circums	7 4	176
Carter, George	Steps for coaches		101 211
Carter, James W	Roasting coffee		358
Carter, Robert	Rags, washing		87
Carter & Reinhardt	Truss	20	344
Carter, Stanly	Guide board signs	9	196
Carter, Thomas	Plough, improvement on Gopher	1 -	20
Carter, Valentine	Steam engines, avoiding dead point	6	158
Cartwright, G. W	Printing press, roller	18	327
Caruthers, William	Nails, manufacturing	2	53
Carver, Eleazer	Hulling rice and barley		14
Carver, Eleazer	Rolling mill for circular saws		56
Carver, Eleazer.	Saws, circular, cutting teeth		57
Carver, Eleazer	Gin cotton, roller	3	76
Carver, Eleazer	Gin cotton, saw gin	3	76
Carver, Eleazer	Gin cotton, saw	3	76
Carver, Eleazer	Gin cotton, saw, ribs	3	76
Carver, Eleazer	Couch, variety		310 57

PATEMPROS.	ENVENTIONS OR DISCOVERED.	CLASS.	PAGE.
Carver, Eleazer, jr	Gin cotton	3	75
Carver, Eleazer, jr	Gin cotton saw grates	3	76
Carver, George	Brushes, scrubbing	17	310
Carver, Isaac, jr	Yards of vessels, slinging.	7	179
Carver, James	Bath, veterinary, ventilated	20	341
Carver, James A	Window blinds, fastener	12	63
Cary, Jonathan H	Lathe spools	13	256
Carey, Stephen	Paving, wood, blocks for	14	269 197
Cary, Thomas C	Window shutter, fastening	2	63
Cary, Zach	Shearing cloth	3	88
Case, Elisha	Excavator, shovel	9	196
Case, Hull	Propelling vessels	7	175
Case, James	Distilling	4	104
Case, Jeremiah	Smut machine		24
Case, Jeremiah		2	57
Case, Norton	Thrashing machine	13	260
Case, Norton	Spine apparatus	20	25
Casey, James K	Loueries, &c	8	343 185
Casey, James K	Balance, dormant		239
Casey, Samuel	Alcohol for oil		99
Cass, Moses	Washing machine	17	31
Cass, Moses G	Harrows, revolving	i	is
Cass and Bull	Saw, two edged	14	276
Casselberry, Evans	Clocks, self-winding	8	184
Caswell, Jedediah	Lock, percussion		335
Caswell, Lebbeus	Press, cheese.		24
Caswell, Lebbeus	Press, cheese and cider	12	241
Caswell, LebbeusCaswell, Sheldon	Auger set, hubs	111	22
Cate, Norman S. and Jas. H. Putnam		14	263 133
Catchpole, George	Straw cutter	ĭ	2
Cathcart, Charles W	Thrashing machine	Î	3
Catlin, Hebard and Abell	Cooler, flour		25
Catlin, John			150
Catlin and Fletcher	Steam engine, rotary		160
Caton and Rives	Printing press, register		32
Caustin, R. L	Thrashing machine	_	30
Cavarly, L. D	Hulling cotton seed	. =	1
Cayford, John E	Stumps, extracting		200
Center, Joah	Hay, spreading and turning		12
Cerneau, James			34
Cerneau, Joseph	Propelling boats		17
Cerneau, Joseph	Propelling by pendulum		17
Cerneau and Hallet	Ram, hydraulic	11	22
Chaffee, E. M	Caoutchouc to cloth		10
Chaffee, Edwin M	Hose, India rubber		22
Chaffee, Edwin M.	Boots & shoes, India rubber leather.		29
Chaffee, Edwin M	Mail bags	22	35
Challer Tones and Low	Spirits, turpentine and resin manufac's		111
Challar, Jones and Low	. Stoves, cooking		14
Chamberlain, Calvin	Straw cutter and corn sheller	19	33
Chamberlain, Dexter H	Harpoon	7	17
Chamberlain, Edward	. Sal æratus, making	.1 4	ii
Chamberlain, Samuel	. Cordial, billious	4	10
Chamberlain, Samuel	Boots and shoes, manufacturing	16	29
Camberlain, Samuel G	. Teeth, porcelain	- 20	34
Chamberlain, William			10
Chamberlain, William	. Trigonometer	8	18
Chamberlain and Claffin	Stemps post and ather	12	24
Chambers, Benjamin	-) commbe, boar and orner	18	32

Patentees.	·INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Chambers, Josias.	Press, cotton	12	943
Chandler, Abel	Blocks, stereotype	18	321
Chandler, Adoniram	Life preserver	7	171
Chandler, George		2	52
Chandler, John Hasset	Mortising machine	14	270
Chandler, John P	Cutting grass	1	11
Chandler, Stephen	Thimbles, rims without soldering	2	61
Chandler, Stephen	Thimbles, rims	2	61 271
Chandler, Thomas A	Engine, water	14 11	221 221
Chandler, Thomas, and Asa D. Reed	Winnowing machine	i	35
Chandler and Brown	Loom, harness	3	83
Chandler and Holland	Thrashing machine	i	31
Chandler and Ranger	Plough	1	18
Chandler and Shepherd		2	52
Chaney, Cyrus	Brick, moulding and pressing	15	286
Chaney, Josiah		10	212
		14	270
		3	77
Chapman, Abner		11	234 205
Chapman, George W		10 19	333
Chapman, Harvey		10	209
Chapman, Isaac L		3	76
Chapman, Jesse		15	288
Chapman, John Lee		11	220
	Hydrants	11	223
	Loom, sail, duck	3	82
	Grist mill	13	253
	Loom	3	80
	Carriages sustaining weight	10	209
	Shingles, shaving and pointing	14	279
Chapman, Samuel B. Chapin Ethan S.	I cake for five arms	19	335
	Saw mills	14	274
	Saw, hanging	14	273
		ii	226
	Boats on ice	7	168
Chappel, David	Yoke, ox	1	36
	Flax and hemp machine	3	73
	Spinning hemp and Flax	3	90
	Garments, draughting	21	351
	Reading, teaching	18	328
	Propelling paddles, buckets	18	325 174
	Press, seal	12	244
Chase, Berry		4	109
Chase, Ebenezer C	Flax and hemp breaking	3	72
	Grist mill	13	252
Chase, Heber	Truss for Hernia	20	344
Chase, Jonathan	Washing machine	17	316
Chase, Mark L	Grist mill	13	253
Chase, Mark L		13	258
Chase, Moses	Carding & spinning	3	68
Chase, Moses	Ventilators chimney cane	17 5	314 147
Chase, Paul	Coal anthracite combustion of	5	125
Chase, Samuel	Chimneys, preventing smoking.	5	125
Chase, Samuel L.	Stove, cooking.	5	140
		5	141
Chase, Samuel L	Stove, cooking		
Chase, Samuel L	Rolling & shaving leather	16	299
Chase, Thomas	Rolling & shaving leather		
Chase, Samuel L.  Chase, Thomas.  Chase, T. (assigned to G. H. Richards).  Chase, William H.	Rolling & shaving leather	16	299

Paten <b>tino.</b>	MVENTIONS OR DISCOVENES.	CLASS.	PAGE
Chassaing, Edward	Tobacco, Rosnoke leaf manf'g	22	3:
Chater, Nathaniel	Pigment, black, from anthracite coal.	4	î
Chatfield, Orin	Washing machine	17	3
Chatterton, Richard D	Propelling paddle wheels	7	1
Chavalier. Nicholas W	Caulking ships	7	10
Cheatham, Jonathan	Harrow, hoe, and plough	1	
Cheek, Pendleton	Mill stones, ventilators	13	2
Oheesebrough, Zebulon	Mill stones, dressing	13	2
Cheney, Isaac	Brooms, metallic head for	17	30
Cheney, Samuel	Lath, machine cutting	14	20
Chenoweth, Richard B	Plough	1	
Chenoweth, Richard B	Plough, self-sharpening	1	
Cherrington, Edmund	Bedstead & mattrass	17	3
Cherrington, Edmund	Bedstead sola, raising	17	3
Cherrington, Edward	Sota chair springs	17	3
Cherry, Enos D	Washing machine	17	3
Cherry, G. W	Garuen, geographical	1	١.
Cherry, George W	Excavating diches	9	1
Cherry, George W	Lists workleting	9	1
Cherry, George W	Pine fort	21	3
Cherry, G. W., assignor to E. L. Walker	Dane immed	18	3
Chesley, Geo. C	Con miles d to maline hour	12	2
Chesnut, William D	Car, ratiroad, coupling pars	10	2
Chesterman, Edwin	Suspenders, maning	21	3
Chesters, James	Daising warn or roping	3	١,
horing Hours	Dath doction	7	1
Chevins, Henry			3
Chevrier, Lewis			2
ham H R	Whools friction for milecad	6	
Chew, H. B	Metals composition in fusion of	10	2
Chichester, A. and S	Hat blocks	3	
Chickering, Asa W	Splitting sking	16	3
Chickering, Jonas	Piano forta	18	3
Chickering & Chickering	Naile manuf'e	1 2	1 ~
Chickering, Jonas			3
Chickering, Jonas, assignee of Rufus Por	<b>-</b>	1	`
ter	. Hinges, piano forte	., 2	
	Piano forte		1 3
Chidester, Samuel	. Loom	. 3	1
Childs, A. D	. Horse power for machinery	. 13	1 5
Childs, Charles D	Smut machine	. 1	1
Childs, Charles D	Smut machine	. 1	
Child, Ezra	Steam engine, rotary	. 6	
Child, Holland	· Winnowing grain	.) ]	1
Childs, Horace	Bridges	. 9	İ
Childs, James	Stove, cooking	. 5	1
Child, Lewis	Letters & figures, metallic.	. 17	
Child, William	. Razor snarpening	. 21	-
Chilson, Gardner	Furnace, baker's	. 5	1
Chilson, Gardner			
Chilson, Gardner			
Chinn, Achilles	Depoling boots		
Charte Warren C	Disming poace	. 7	
Choate, Warren C	l-	1 '	
lar & Parmelee	. Stove, cooking		ì
Christie, Jos. A	. Napping and carding	. 3	1
Christy, Robert	. Elevator	. 11	
Christian, Evans	Flax and hemp machine	. 3	
Christian, George	Shears, cutting brass, &c	. 2	1
Unristman, Daniel W	Pumps	11	-
vnupo, willam	. Hair hatcheling	. 3	i

Pat <b>ritur</b> e.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Chubbuck, Stephen	Nail machine, nippers	2	53
Chubbuck, Stephen and Jedediah Briggs.	Furnace, blast	2	43
Church, Ambrose	Mineral water, soda apparatus	4	111
Church, Ambrose, jr	Planing mouldings	14	273
Church, Damon A	Mowing & harvesting	1	15
Church, Damon A	Press, cheese	12	242
Church, Damon A	Saw mill, dogs	14	275
Church, Damon A. and Smith	Winnowing machine, screen	1	35
Church, Eli	Spinning wheel heads		93
Church, James, jr	Spinning machine	3	90
Church, Othello	Fencing grounds		357
Church, Samuel	Wheels felloes	1	213
Church, Samuel	Wheels felloes	10	214
Church, William	Buckles & clasps	2	40
Church, William	Spinning wool and cotton	1 -	94
Church, William	Candlestick	5	124
Church, William	Furnace, anthracite	5	128
Church, William	Steam engine		156
Church & Clark	Washing machine		315
Churchell, Bela	Apples, grinding		249
Churchill, Alfred	Mowing & harvesting	1	15
Churchman & Martin	Bark mill	13	249
Cist, Jacob	Pigment, black, for printing or paint-		
Circ. Touch	ing	4	113
Cist, Jacob.	Paint mill	13	259
Claiborne, Richard	Propelling paddles, boats	7	174
Claiborne, William P	Cutting wheet	1	11
Clapp, H. D., assignee of Henry W.	Sauara manah		-
Hewet	Screw, wench	2	59
Clapp, Joseph	Engine crank, throwing water	11	221
Clapp, Joseph	Engine crank, throwing water	11	221
Clapp, J. and E. S	Cutting scythe, hanging	1	11 349
	Lever and wheels	21	349 241
	Silk reel, foot	12 3	88
	Steam engine, rotary	6	160
	Saw mills	14	273
Clark, Abishai	Meat, cutting	17	313
	Saw trimmer	14	276
	Fire arms, rifles	19	335
	Coffee mill	13	251
	Coffee and spice mill	13	251
	Gridirons	5	130
	Marble, cutting, &c	15	289
	Thrashing and hulling	1	28
	Tunnel with vents	11	222
	Mortising machine	14	270
	Marble turner	15	289
o ' ' o ' o ' o ' o ' o ' o ' o ' o ' o	Ink, printers	4	109
	Lead, white	4	109
	Lead, white	4	110
Clark, Edward	Lead, white, from Oxide	4	110
	Lead, white, from Oxide	4	110
	Salts, metallic	À	116
Clark, Edward	Vinegar, manufacturing	4	119
Clarke, Edward	Lamps	5	131
Clark. Edward	Carriage, steam	6	153
Clark, Edward	Navigating rivers.	7	171
Clark, Edward	Forts	9	196
Clark, Edward	Inclined planes	9	196
	Cutting sausage meet	17	312
Clark, Edwin.			
Clark, Edwin	Jointing boards	14	
Clark, Edwin  Clark, Elijah B  Clark, Francis G  Clarke, George R	Jointing boards	14 8	268 186

Patriffine.	inventions or discoveries.	CLA88	PAGE.
Clark, Henry	Gin, cotton	3	75
Clark, Henry	Collars, dress coats	21	350
Clarke, Hez. S	Hides, breaking	16	297
Clark, Isaac	Piano forte	18	325
Clarke, James	Conduit, self-regulating	11	221
Clark, James	Springs, wooden	10	211
Clark, James	Odometar		185
Clarke, James A	Bed bug, preventing		307
Clarke, James M	Smut machine	.1	24
Clark, John	Hydraulic machine		223
Clark, John	Pump, valves and piston	11	227
Clark John	Pumpe	11	224
Clark, John, jr	Brakes, friction	14	269 205
Clark, Jonathan	Cutting vegetables	10	312
Clarke, Joseph H	Bed bug, destroying	17	307
Clark, Josiah R	Loom, carpet		80
Clark, Joshua	Pump, forcing and suction		220
Clark, Levin	Car, railroad		207
Clark, Levin P	Boilers, safety	6	153
Clark, Levin P	Crackers, cutting	17	311
Clark, Martin	Fur, cutting	3	74
Clark, Moses J	Washing machine	17	315
Clark, O., and William D. Hil'is	Hoes to handles, attaching	1	15
Clark, Patrick J	Lamps, lard		133
Clark, Patrick J	Lamps, screw head	5	133
Clark, Peter	Harrow and cultivator	1	15
Clarke, Richard P	Washing machine	17	315
Clark, Samuel	Churn		1
Clark, Samuel	Thrashing machine	17	308
Clark, Samuel	Churn	i	300
Clarke, Thomas C	Cocks, water	ıî	220
Clark, Uri L	Churn	i	
Clark, Uriah L	Washing machine	17	310
Clarke, William	Spinning machine	3	91
Clark, William N	Auger, gimlets	14	265
Clark and Albertson	Rags, dusting and tearing	3	87
Clark and Boynton	Stone, cutting and planing	15	290
Clarke and Chase	Hat bodies	3	76
Clark and Crowell	Pipes, conduit		224
Clark and Evans	Packing machine		241
Clark and Henderson	Crackers, cutting		310
Clark and Henderson	Crackers, cutting		310
Clark S. and G. & G. Stimson	Thrashing machine		30
Clarke and Wise	Steering vessels	9	178
Clarkson, David	Boots and shoes, water proof		29
Clarkson Joseph	Cordage, laying, and twine		70
Clarkson, William K., jr	Velocipede	10	219
Claude, Dennis, jr	Grain, separators		is
Claxton, Timothy	Pumps, air	11	22
Clay, William Neals	Ores, iron reducing	2	54
Clayton, Thos	Excavating	9	19
Clayton, William			200
Cleaveland, Charles			324
Cleaveland, Dyer			4
Cleaveland, Dyer	Unurn	1	1
Cleaveland, Dyer	riarness, norse collar, machine	16	29
Cleveland, George	Pallaged minning con-	3	77
Cleveland, George W	Canton funning gent	9	198
Cleveland, Horace	Wheel hubs, horing	9 10	193
	HOOL HUUDS OVERIES	1 10	21



PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Classeland Iosiah		17	914
Cleaveland, Josiah	Tide mills	17	314 229
Cleaveland, Lewis	Churn	11	5
Cleaveland, Porter	Thrashing machine	: 1	32
Clegg, Samuel	Gas metres, self-acting	4	108
Clegg, Samuel	Railway, pneumatic valves	9	199
Clegg. William.	Spools and bobbins	3 1	94
Clements Garret	Leaching ashes	4	109
Clements, Stephen	Spinning cotton, water frame for	3 1	89
Clibbon Edward	Furniture, house, ship, &c	17	313
Cline, John			137
Cliff, Peter	Diameh	2	51
Clime, Samuel	Plaugh combined	1 1	17 19
Clinton, Charles	Cements for nillars	4	101
Clinton, Charles		4	101
Clinton, Charles	Boilers, steam	. 6	151
Clinton, David	Winnowing machine & fan	1 1	35
Clirchugh, Vair	Composition for leather	4	103
Clirehugh, Vair	Tanning and coloring matter	16	302
Close and Sanford	Extracts, making	4	108
Close and Sanford	Saw plates	2	57
Clough, William T	Oil from rosin	4	112
Clowes, Charles L	Washing machine	17	315
Clow Daniel	Winnowing mill	1	35
Clowes, Isaac	Fire, extinguishing	5	126
Clowes, Isaac	Press, oil	12	244
Clowes, Isaac	Friction rollers	13	252
Clow, Lewis E	Furnace, tuyeres for	2	44
Clowes, William	Steam aurine	17	309
Cluster and Standliffe	Chak make	6	156
Cluley and Stancliffe	Lumpes August	11	221
Clute, Jeremiah and Jacob Seabury	Voce ornamental design	2 17	44 314
Clute, John B	Stove design	5	137
Clute. Peter J	Plough	1 1	16
Clute. Peter J	Steam, generating, for forging	6	162
Clute, Peter J	Stoves	5	136
Clyde, John	Mill stones	13	257
Clymer, George	Pump for ships	11	227
Coad, Patrick	Galvanic battery	8	185
Coats, Alanson	Horse power tread wheel	13	257
Coates, Moses	Saw mills	14	273
Coates, Moses	Cutting and paring apples	17	311
Coates and France	Rake, revolving	1	22
Coates and Evans	Couriers fold antillers	1	25
Cobb, David	Plankete	19	334
Cohb Gershom	Interest tables	8	67 198
Cobb, Gershom	Interest tables	8	185 185
Cobb, Isaac	Cultivator, tooth	ì	103
Cobb, Isaac	Pendulum mills	13	259
Cobb, Isaac	Spritting skins	16	301
Cobb, James D.	Friction rollers	13	252
Cobbs, John P	Plough, hill side		20
Cobb. William	Stove, double oven	5	145
Coburn, James	Coment, fire proof	1 4	101
Coburn, William	Tannin, extracting by steam	4	118
Coburn, William	Wind wheel	11	235
Cock, Andrew	Seeding corn planter	1	22
Cocke, William J.	Distilling	4	104
Cocke, William J	Press setton		104
Cocke, William	Planch	12	242
THE DATE OF MICHELLS AND ADDRESS OF A SECTION	Clough	! 1	17

PATRITERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Cockley, David	Wheels, car	10	213
Cochran, Ebenezer	Water wheel	11	235
Cochrane, John		6	157
Cochrane, John	Steam engine, cut off valves	6	158
Cochrane, John	Water, regulating supply	11	229
Cochran, John	Propelling paddles, boats	7	174
Cockran, J	Andiron bars	2	39
Cochran, J	Lever power	12	241
Cochran, John M	Furnaces, friction	5	126
Cochran, John W		3	74
Cochran, John W		5	127
Cochran, John W		19	333
Cochran, John W	Fire arms, many chambered	19	334
Cochran, John W		19 19	334 336
Cochran, R. G		5	139
Cochran, R. G	Stove, cooking	5	140
Coddington, Eli	Lathe, mouldings and beads		269
Codman, John	Door springs, vertical wire	2	45
Codman, John		2	49
Codman, Thomas P	Power, combined		259
Coe, Avery and John		13	253
Coe, Elias V	Churn, by atmospheric air	i	
Coes, Loring	Screw wench	2	59
Coffan, William, jr	Glass, flattening	15	28
Coffey, Reuben	Seeding corn planter	Į,	2
Coffield, William	. Ducks, catching	22	35
Coffin, Ézekiel W	Corn, shelling	1	1 3
Coffin, Isaac N		6	15
Coffin, James B	Boring machine	14	260
Coffin, James B	. Washing machine	17	31
Coffin and Beach	Boilers, steam		15
Coffman, Andrew	Pipes, water	11	22
Coffman, George A	. Cutting sausage meat		31
Cogswell, Osmond	Tanning		30
Cogswell, Osmond	Tanning		30
Cohen, J. 1	Lotteries		18
Cohen, J. I	Lotteries		18
Cohoon and Elliott	Thrashing machine		2
Coit, Daniel	Pills, family		!!
College Polest	Pills, family		11
Colbum David C	Cordage		7
Colburn, David G	Pumps, atmospheric piston		22
Colburn, David G			33
Colburn, David G	Gun, manufacturing		33
Colburn, Luther	Lock, percussion		33
Colburn, Milton F		1	20
Colby, Alvan			2
Colby, John			1 7
Colden, Cadwallader D			2
Colden, Cadwallader D			22
Colden, Edward D			l ii
Cole, David H	Winnowing grain	. i	7
Cole, Elijah, by Ezekiel Cole, adm'r		. 8	18
Cole, Erastus E	Saw for piles under water	. 14	2
Cole, James			2
Cole, Lewis.	. Hulling rice		1 3
Cole, Samuel W	. Seeding planting corn	. 1	
Cole. Samuel W	Stove, cooking,	. 5	1
Cole, Thomas	' Bedstead, making	. 17	30
Cole, Thomas and John Littlefield	Winnowing machine	. 1	1 3
Cole, Tillott	Shingles, cutting	. 14	2
Cole, William	! Felt washer	. 3	1

patențees.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Cole and Johnson	Doors, fender	9	194
Cole and Miller	Barrels	14	266
Coleman, Claverius	Gearing mills	13	259
Coleman, Eliphalet B	Stove, cooking, &c	5	149
Coleman, Ezra	Inclined planes, crossing	10	209
Coleman, Ezra	Bedstead	17	307
Colman, Jeremiah L	Wind wheel, horizontal	11	235
Coleman, John	Smut machine	1	24
Coleman, John	Slates, framing and polishing	15	290
Coleman, Noah H	Mineral water, soda apparatus	4	- 111
Coleman, Obed M	Piano forte	18	325
Coleman, Spencer	Axletrees	10	205
Coleman, Sidney E	Fulling mill	3	74
Coleman, William	Grist mill	13	254
Colles, Christopher	Brick making	15	285
Colley, John G	Marine railway	9	197
Collier, Elisha H	Paper from sea grass	3	- 86
Collier, Phæbe, widow of James	Wheels felloes, sawing	10	213
Collier, William R	Printing press	18	328
Collier, William R	Types, casting and setting	18	328
Collins and Gallup	Steam by anthracite coal	6	169
Collins, Asahel	Axes, oval	2	39
Collins, Asahel	Furnace, blast, draught	2,	43
Collins, Asahel	Steam, condensing	6	156
Collins, Chas., ass'nee of Jas. Pilbrow	Steam engine, rotary	6	158
Collins, Daniel	Saw mills	14	274
Collins, James	Shearing cloth	3	88
Collins, James.	Shearing cloth, shears	3	88
Collins, John B	Button moulds	21	349
Collins, Michael	Ventilator	5	147
Collins, Samuel	Forge, hollow	2	43
Collins, Samuel	Excavator, mud machine	9	196
Collins, Samuel	Steel cast from scrap iron	2	61
Collins, Squire	Bogging machine	1	015
Collins, William and J. D	Washing machine	17	317
Colling and Wiston and Property Contill	Saddles	16	299 269
Colling Man's Co. applyed of F. K. Poot		14	
Collins Man'g Co ass'nee of E. K. Root		2	61 136
Colombour James	Stoves	5	115
Colquhoun, James	Salt, evaporating	4 5	128
Colt, Samuel	Furnace, evaporating salt	19	334
Colt, Samuel	Fire arms	19	334
Colton, Aaron	Bee hives	i	307
Colton, Joseph	Pocket-book, watch safe	21	353
Colton, Sabin	Lock, door	2	50
Colton, Francis	Churn	ĩ	6
Colver, Charles	Pump, forcing, double	ıî	226
Colver, David	Raising water, steam engine	ii	228
Colver, Stephen	Vessels, heaving down	7	179
Colver, Stephen	Excavator, mud machine	ġ l	196
Colvin, Ephraim	Uterine supporter	20	345
Colvin, Robert K	Hydrants	ii	223
Colville, Alexander A	Lock, gun	19	335
Combs, John B	Tailor's measures	21	354
Comfort, John	Cutting grain	ī	11
Comfort, Joseph	Thrashing and cleaning machine	ī	27
Comfort, Joseph	Thrashing machine	ī	26
Comins, John P	Loom, power, take up motion	3	81
Compton, Nathan	Saw mill feeder	14	275
Compton, Stephen, jr	Locomotive engine, removing houses.	6	154
Comstock, Darius	Excavator	9	195
Comstock, J. L	Water proof leather and cloth	16	303
Comstock and Pike	The proof routines and crossitions		

Concy, Martin   Water wheel   11   230   230   230   230   230   240   230   240   230   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240				
Conani, Abel.         Bread, raising         17         309           Conant, Rufus         Window shades.         17         318           Conde, Adam C.         Stove, cooking.         5         318           Condis, Joseph, jr.         Paper from currier's shavings.         3         86           Condon, Samuel.         Hulling clover seed.         1         13           Cone, Joshua.         Springs, carriage.         10         20           Coney, Martin.         Water wheel.         11         230           Conger British         Cotton manufacturing         3         71           Conger, John G.         Gutting vegetables.         17         318           Conger, John G.         Gutting vegetables.         17         318           Conner, Henry         Gonkian, Amarnes, metaleyes.         3         38           Conkiin, Henry         Wool, burring.         3         35           Conkiin, John C.         Harrier, John G.         12         24	Patentees.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Conant John	Conant, Abel	Lock, door	2	49
Conata, Rufus			17	309
Condit, Joseph, jr   Paper from currier's shavings   3   86   Condon, Samuel   Hulling clover seed   1   13   Condon, Samuel   Hulling clover seed   1   13   Condon, Joshua   Springs, carriage   10   210   Coney, Martin   Water wheel   11   220   Congedon, Elisha   Cotton manufacturing   3   71   Capger, Ellison   Grates and fire place   5   129   Conger, John G   Cutting vegetables   17   312   Conger, John G   Cutting vegetables   17   312   Conger, John G   Cutting vegetables   17   312   Conger, John G   Cutting vegetables   17   312   Conger, John G   Cutting vegetables   17   312   Conger, John G   Cutting vegetables   17   312   Conger, John G   Cutting vegetables   17   312   Conklin, Henry   Gin, cotton   3   75   Conklin, James H   Ploughsbare, cast iron   1   21   Concklin, John C   Straw cutter   1   27   Concklin, John C   Straw cutter   1   27   Concklin, John C   Straw cutter   1   27   Conklin, Nathan W   Saddles, spring   16   299   Conklin, Thomas   Brick press   15   299   Conner, Benjamin   Straw cutter   1   25   Conner, Benjamin   Straw cutter   1   25   Conner, James O   Hydraulic machine   11   22   Conner, James O   Hydraulic machine   11   22   Conner, James O   Hydraulic machine   12   22   Conner, James O   Hydraulic machine   14   22   Conner, Stephen T   Steam engine   6   156   Conn, Stephen T   Steam engine   6   156   Conn, Stephen T   Steam engine   6   156   Conn, Stephen T   Steam engine   6   156   Conn, Stephen T   Steam engine   6   156   Connerse, Elijah   Converse, Elijah   Converse, Elijah   Converse, Elijah   Cook, Calvin W   Cloth, dressing   3   3   Cook, Calvin W   Cloth, dressing   3   3   Cook, Clavin W   Cloth, dressing   3   3   Cook, Clavin W   Cloth, dressing   3   3   Cook, Clavin W   Cloth, dressing   3   3   Cook, Blisha   Straps, suspender attaching   21   3   Cook, Elisha   Straps, suspender attaching   3   3   Cook, Clavin W   Cloth, dressing   3   3   Cook, Clavin W   Cloth, dressing   3   3   Cook, Clavin W   Cloth, dressing   3   3   Cook, Clavin W				
Condit, Joseph, jr.				
Condon, Samuel.	Condit Issanh in			
Condon, Samuel.   Thrashing and flax dresser   1   28			_	
Cone, Joshua   Springs, carriage   10   210   210   210   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200				
Coney, Martin   Water wheel   11   230   230   230   230   240   235   240   235   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240				210
Capper   Ellison				230
Conger, John G.	Congdon, Elisha		3	
Conger and Woodbury	Conger, Ellison			
Conine, William C.	Conger, John G			
Conklin, Henry	Coning William C			
Conklin, James H				
Concklin, John C				
Concklin, John C.				
Concklin, John C.         Forges and bellows.         2         43           Conklin, Nathan W.         Saddles, spring.         16         299           Conklin, Thomas.         Brick press.         15         287           Conner, Benjamin.         Constructing ships.         7         188           Conner, Benjamin.         Bridges.         9         191           Conner, Henry L.         Press, cotton.         12         242           Conner, Henry L.         Press, cotton.         12         242           Conner, James O.         Hydraulic machine.         11         223           Conner, Thomas O.         Distilling condensor.         4         106           Conn, Stephen T.         Gin, cotton.         3         75           Conn, Stephen T.         Steam engine.         6         156           Conn, Stephen T.         Steam engine.         6         156           Connison, Alexander.         Steam engine.         6         162           Connison, Alexander.         Steam engine.         6         162           Constant, Cyrus.         Constant, Gyrus.         Constant, Gyrus.         10         211           Conser, John G.         Washing machine.         1 <td< td=""><td></td><td></td><td></td><td>12</td></td<>				12
Conklin, Nathan W         Saddles, spring         16         299           Conklin, Thomas         Brick press         15         287           Conner, Benjamin         Straw cutter         1         25           Conner, Benjamin         Constructing ships         7         165           Conner, Benjamin         Bridges         9         191           Conner, Benjamin         Bridges         9         191           Conner, Benjamin         Constructing ships         7         168           Conner, Benjamin         Constructing ships         9         191           Conner, James O         Hydraulic machine         11         242           Conner, James O         Hydraulic machine         11         242           Conn, Stephen T         Gin, cotton         3         7         16           Conn, Stephen T         Steam engine         6         156         166           Connison, Alexander         Steam engine         6         165		Straw cutter	1	27
Conklin, Thomas	Concklin, John C		1	43
Conner, Benjamin	Conklin, Nathan W			
Conner, Benjamin				
Connor, Benjamin			1 2	
Conner, Henry L.			6	
Conner, James O.				
Conner, Thomas O.         Distilling condensor.         4         106           Conn, S. T.         Gin, cotton.         3         75           Conn, Stephen T.         Salt, manufacturing by steam.         4         116           Conn, Stephen T.         Steam engine.         6         156           Conn, Stephen T.         Steam engine.         6         162           Connison, Alexander.         Steam, generating.         6         162           Connison, Alexander.         Constructing paddle wheels.         7         165           Connison, Alexander.         Springs, pneumatic.         10         21           Constant.         Washing machine.         10         21           Constant.         Yusus         Yu				223
Conn, S. T.         Gin, cotton.         3         75           Conn, Stephen T.         Salt, manufacturing by steam         4         116           Conn, Stephen T.         Steam engine.         6         156           Conn, Stephen T.         Steam engine.         6         156           Connison, Alexander         Steam engine.         6         157           Connison, Alexander         Constructing paddle wheels.         7         168           Connison, Alexander         Steam, generating.         10         211           Connison, Alexander         Steam, generating.         10         211           Connison, Alexander         Steam engine.         10         211           Conser, John G.         Stones, dressing.         14         260           Conser, John G.         Washing machine.         17         316           Converse, Edward M.         Timplate ware.         2         62           Converse, Edward M.         Timplate ware, wiring machine.         2         62           Converse, Elijah.         Dye woods, cutting.         14         267           Converse, Elijah.         Dye woods, cutting.         14         267           Conway, Charles C.         Steam engine.         6	Conner, Thomas O			106
Conn, Stephen T.         Steam engine.         6         156           Conn, Stephen T.         Steam engine.         6         156           Connison, Alexander.         Steam engine.         6         157           Connison, Alexander.         Constructing paddle wheels.         7         168           Connison, Alexander.         Springs, pneumatic.         10         21           Conser, John G.         Stoves, cooking, improvement.         5         14           Conser, John G.         Washing machine.         17         316           Constructing paddle wheels.         7         168         162           Conser, John G.         Stoves, cooking, improvement.         5         14         280           Conser, John G.         Washing machine.         17         316         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280         280	Conn, S. T			75
Steam engine.   Steam engine.   Conn, Stephen T.   Steam engine.   Steam, generating.   Conn, Stephen T.   Steam engine.   Constructing paddle wheels.   Tonison, Alexander.   Steam engine.   Constructing paddle wheels.   Tonison, Alexander.   Springs, pneumatic.   Tonison, Alexander.   Springs, pneumatic.   Tonison, Alexander.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking, improvement.   Stoves, cooking,				116
Steam, generating   6   162   Connison, Alexander   Connison, Alexander   Constructing paddle wheels   7   185   Connison, Alexander   Constructing paddle wheels   7   185   Connison, Alexander   Constructing paddle wheels   7   185   Connison, Alexander   Constructing paddle wheels   7   185   Consen, John G   Stoves, cooking, improvement   5   143   Conser, John G   Washing machine   17   165   Constant, Cyrus   Composition, pressing wood & brick   4   103   Converse, Edward M   Converse, Edward M   Tinplate ware, wiring machine   2   62   Converse, Elijah   Converse, Elijah   Converse, Elijah   Converse, William F., Richard H. Penny, and Richard S. Hanniford   Conway, Petrus J. O   Bedstead   17   308   Cook, Calvin W   Cook, Andrew J   Cook, Calvin W   Cook, Calvin W   Cook, Calvin W   Cook, Calvin W   Cook, Calvin W   Cook, Calvin W   Cook, Calvin W   Cook, Calvin W   Cook, David B   Cook, Elisha   Straps, suspender attaching   3   2   3   3   3   3   3   3   3   3	Conn Stephen T			
Steam engine	Conn Stephen T			
Connison, Alexander				
Connison, Alexander		Constructing paddle wheels	7	
Conser, John G.   Stones, dressing.   14   280   Conser, John G.   Washing machine.   17   316   Constant, Cyrus.   Composition, pressing wood & brick.   4   103   Converse, Edward M.   Timplate ware.   2   62   Converse, Elijah.   Converse, Elijah.   Converse, Elijah.   Converse, Elijah.   Converse, William F., Richard H. Penny, and Richard S. Hanniford.   Conway, Charles C.   Steam engine, &c.   6   157   Conway, Charles C.   Steam engine, &c.   6   157   Conway, Charles C.   Steam engine, &c.   6   157   Conway, Charles C.   Converse, Calvin W.   Cook, Calvin W.   Cloth, dressing.   3   68   Cook, Calvin W.   Cloth, dressing.   3   68   Cook, Calvin W.   Cloth, dressing.   3   68   Cook, David B.   Straps, suspender attaching.   21   355   Cook, George W.   Churn.   1   Cook, George W.   Churn.   1   Cook, Harriet.   Cloth, Harriet.   Clallash, balloon, for ladies.   21   355   Cook, Harriet.   Cook, Ret, giil, fish.   22   355   Cook, Calvin W.   Cloth, Harriet.   Callash, balloon, for ladies.   21   355   Cook, Harriet.   Callash, balloon, for ladies.   21   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355   Cook, Harriet.   Callash, balloon, for ladies.   22   355				211
Conser, John G.   Washing machine.   17   316   Constant, Cyrus   Composition, pressing wood & brick   4   103   Converse, Edward M   Timplate ware.   2   62   Converse, Edward M   Timplate ware, wiring machine.   2   62   Converse, Elijah   Converse, Elijah   Converse, Elijah   Converse, Elijah   Converse, William F., Richard H. Penny, and Richard S. Hanniford   Conway, Charles C   Steam engine, &c.   6   157   Converse, Petrus J. O   Brakes, cars.   10   206   Conway, Charles C   Conway, Charles C   Conway, Charles C   Conway, Charles C   Conway, Charles C   Conway, Charles C   Conway, Charles C   Conway, Charles C   Conway, Charles C   Conway, Charles C   Converse, Elijah   Cook, Richard M   Mowing and gathering flax and hemp   16   Cook, Calvin W   Cloth, dressing   3   Cloth, dressing   3   Cloth, dressing   3   Cloth, dressing   3   Cloth, dressing   3   Cloth, dressing   3   Cloth, dressing   3   Cloth, Calvin W   Cloth, dressing   3   Cloth, Calvin W   Cook, Calvin W   Cloth, dressing   3   Cloth, Calvin W   Cook, Calvin W   Cloth, dressing   3   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   Cloth, Calvin W   C	Conrad, S. and G. J			143
Constant, Cyrus				280
Converse, Edward M				316
Converse		Composition, pressing wood & brick.	4	1
Converse		Tipplate ware	2	
Converse, Elijah   Dye woods, cutting   14   267				
Converse, William F., Richard H. Penny, and Richard S. Hanniford         Bedstead         17         308           Conway, Charles C.         Steam engine, &c.         6         155           Conway, Petrus J. O.         Brakes, cars.         10         206           Conwell. Abram         Tan yard.         16         303           Cook, Richard M.         Mowing and gathering flax and hemp         1         15           Cook, Andrew J.         Cutting grass.         3         65           Cook, Calvin W.         Cloth, dressing.         3         65           Cook, Chester.         Distilling, still worm.         4         107           Cook, David.         Propelling boats         7         7           Cook, Ebenezer.         Oakum, picking.         3         84           Cook, Elisha.         Sawing with stub, short.         14         27           Cook, George W.         Churn.         1         7           Cook, Harriet.         Callash, balloon, for ladies.         21				
Conway, Charles C.         Steam engine, &c.         6         157           Conway, Petrus J. O         Brakes, cars.         10         206           Conwell, Abram.         Tan yard.         16         303           Cooch, Richard M.         Mowing and gathering flax and hemp         1         15           Cook, Andrew J.         Cutting grass.         1         11           Cook, Calvin W.         Cloth, dressing.         3         65           Cook, Calvin W.         Cloth, dressing.         3         65           Cook, Calvin W.         Distilling, still worm.         4         107           Cook, Chester.         Distilling, still worm.         4         107           Cook, David B.         Straps, suspender attaching.         21         35           Cook, Ebenezer.         Oakum, picking.         3         36           Cook, Elisha.         Sawing with stub, short.         14         27           Cook, George W.         Churn.         1         3           Cook, Harriet.         Callash, balloon, for ladies.         21         35           Cook, Harriet.         Callash, balloon, for ladies.         22         35				
Conway, Petrus J. O.         Brakes, cars.         10         206           Conwell. Abram.         Tan yard.         16         303           Cooch, Richard M.         Mowing and gathering flax and hemp         1         15           Cook, Andrew J.         Cutting grass.         1         11           Cook, Calvin W.         Cloth, dressing.         3         65           Cook, Calvin W.         Cloth, dressing.         3         65           Cook, Calvin W.         Distilling, still worm.         4         107           Cook, Chester.         Distilling, still worm.         4         107           Cook, David B.         Straps, suspender attaching.         21         35           Cook, Ebenezer.         Oakum, picking.         3         85           Cook, Elisha.         Sawing with stub, short.         14         27           Cook, George W.         Churn.         1         3           Cook, Harriet.         Callash, balloon, for ladies.         21         35           Cook, Harriet.         Ret, giil, fish.         22         35			17	308
Conwell, Abram         Tan yard.         16         303           Cooch, Richard M         Mowing and gathering flax and hemp         1         15           Cook, Andrew J         Cutting grass.         3         65           Cook, Calvin W         Cloth, dressing.         3         65           Cook, Calvin W         Cloth, dressing.         3         65           Cook, Calvin W         Distilling, still worm.         4         10           Cook, Chester         Distilling, still worm.         7         7           Cook, David.         Propelling boats         7         7           Cook, David B         Straps, suspender attaching.         21         35           Cook, Ebenezer         Oakum, picking.         3         84           Cook, George W         Churn         14         27           Cook, Harriet         Callash, balloon, for ladies         21         35           Cook, Harris         Net, giil, fish         22         355				157
Cooch, Richard M         Mowing and gathering flax and hemp         1         15           Cook, Andrew J         Cutting grass         1         11           Cook, Calvin W         Cloth, dressing         3         68           Cook, Calvin W         Cloth, dressing         3         68           Cook, Calvin W         Distilling, still worm         4         107           Cook, David         Propelling boats         7         174           Cook, David B         Straps, suspender attaching         21         35           Cook, Ebenezer         Oakum, picking         3         86           Cook, Elisha         Sawing with stub, short         14         27           Cook, George W         Churn         1         3           Cook, Harriet         Callash, balloon, for ladies         21         35           Cook, Harriet         Net, giil, fish         22         35				
Cook, Andrew J.         Cutting grass.         1         11           Cook, Calvin W.         Cloth, dressing.         3         68           Cook, Calvin W.         Cloth, dressing.         3         68           Cook, Calvin W.         Distilling, still worm.         4         10           Cook, Chester.         Distilling, still worm.         21         35           Cook, David.         Propelling boats         7         174           Cook, David B.         Straps, suspender attaching.         21         35           Cook, Ebenezer.         Oakum, picking.         3         36           Cook, Elisha.         Sawing with stub, short.         14         27           Cook, George W.         Churn.         1         3           Cook, Harriet.         Callash, balloon, for ladies.         21         35           Cook, Harriet.         Ret, giil, fish.         22         35		Maning and anthoning for and hame	16	
Cook, Calvin W.         Cloth, dressing.         3         65           Cook, Calvin W.         Cloth, dressing.         3         65           Cook, Calvin W.         Distilling, still worm.         4         107           Cook, David.         Propelling boats         7         174           Cook, David B.         Straps, suspender attaching.         21         355           Cook, Ebenezer.         Oakum, picking.         3         84           Cook, Elisha.         Sawing with stub, short.         14         277           Cook, George W.         Churn.         1         7         1           Cook, Harriet.         Callash, balloon, for ladies.         21         35           Cook, Harris.         Net, giil, fish.         22         356				
Cook, Calvin W.         Cloth, dressing.         3         65           Cook, Calvin W.         Distilling, still worm.         4         107           Cook, Chester.         Distilling, still worm.         7         177           Cook, David B.         Straps, suspender attaching.         21         355           Cook, Ebenezer.         Oakum, picking.         3         84           Cook, George W.         Churn.         14         277           Cook, Harriet.         Callash, balloon, for ladies.         21         35           Cook, Harris.         Net, giil, fish.         22         355	Cook. Calvin W	Cloth dressing		
Cook, Calvin W.         Distilling, still worm.         4         107           Cook, Chester.         Distilling, still worm.         4         107           Cook, David.         Propelling boats.         7         174           Cook, David B.         Straps, suspender attaching.         21         35           Cook, Ebenezer.         Oakum, picking.         3         84           Cook, Elisha.         Sawing with stub, short.         14         27           Cook, George W.         Churn         1         7           Cook, Harriet.         Callash, balloon, for ladies.         21         35           Cook, Harriet.         Net, giil, fish.         22         35	Cook, Calvin W	Cloth dressing.		69
Cook, Chester.         Distilling, still worm.         4         107           Cook, David.         Propelling boats.         7         174           Cook, David B.         Straps, suspender attaching.         21         355           Cook, Ebenezer.         Oakum, picking.         3         84           Cook, Elisha.         Sawing with stub, short.         14         277           Cook, George W.         Churn.         1         3           Cook, Harriet.         Callash, balloon, for ladies.         21         356           Cook, Harris.         Net, giil, fish.         22         358	Cook, Calvin W		•	"
Cook, David B.       Straps, suspender attaching.       21       35.         Cook, Ebenezer.       Oakum, picking.       3       84         Cook, Elisha.       Sawing with stub, short.       14       27.         Cook, George W.       Churn.       1       1         Cook, Harriet.       Callash, balloon, for ladies.       21       35.         Cook, Harris.       Net, giil, fish.       22       35.	Cook, Chester	Distilling, still worm		107
Cook, Ebenezer.       Oakum, picking.       3       84         Cook, Elisha.       Sawing with stub, short.       14       277         Cook, George W.       Churn       1         Cook, Harriet.       Callash, balloon, for ladies.       21       35         Cook, Harris.       Net, giil, fish.       22       358	Cook, David	Propelling boats		174
Cook, Elisha	Cook, David B	Straps, suspender attaching		353
Cook, George W       Churn				
Cook, Harriet       Callash, balloon, for ladies       21       350         Cook, Harris       Net, gill, fish       22       350				211
Cook, Harris		Callash, balloon, for ladies	21	350
		Net, giil, fish	22	358
				269

PATENTEES.	inventions or discoveries.	CLASS.	PAGE
Cooke, Jacob, and John Strickler	Trusses	20	34
Cook, John	Packing cotton	12	2
Cook, Lucius	Opium from poppy	4	ii
Cook, Lyman	Condenser	4	io
Cook, Lyman	Carriages, manual four wheeled	10	20
Cook, Peter	Smut machine	1	2
Cook, Ransom	Cannon, wrought iron and steel		33
Cook, Ransom, and S. E. Burnham	Saw mill, saw straining		27
Cook, Rosswell	Water wheel		23
Cook, Samuel	Paint mill		25
Cook, Stephens	Smut machine		9
Cook, Tobias	Raising vessels		17
Cook, Townsend	Horses, training		35
Cook, Truman	Propelling, and boats		17
Cook, Truman	Electro magnetic machine		ie
Cook, Valentine	Boring for water	9	19
Cook, William	Churn, labor saving	1	
Cook, William	Distilling	4	10
Cook and Usher	Oakum, picking	3	Î
Cooley, Abiel A	Shingles, shaving	14	27
Cooley, Anthony	Winnowing machine	i	3
Cooley, Anthony	Steam engine, rotary	6	16
Cooley, Benjamin	Raising water	11	26
Cooley, David	Preserving animal and vegetable sub-		_
	stances	4	11
Cooley, David, jr	Horses and cattle, breaking	22	3
Cooley, Lenmon	Thrashing and hulling	1	9
Cooley, Samuel	Elixir, vegetable	4	10
cooley, Samuel	Pills	4	i
ooley, William	Fencing, clay posts	22	3
ooley, William S	Gin cotton, boxing for	3	7
Cooley and Philips	Chimneys	5	19
Coolidge, George	Carts, self balanced hand	10	20
Coolidge, William	Paper polishing	3	· ``E
Coon, David	Pump, bucket	11	25
Joon, John	Wheels	10	21
coon and Hyde	Propelling boats	7	17
cooper, Alpheus	Stove, cooking	5	14
cooper, Charles	Loom, weaving	3	- 8
cooper, Charles E	Fire place	5	15
cooper, David	Water wheel	11	23
ooper, Edward	Bands, contracting wrought iron	2	
coper, Edward	Bands, iron keyed	2	3
cooper, Edward C	Salt, by solar evaporation	4	11
Cooper, George Duncan	Gum elastic, to vessels	7	17
ooper, Henrietta	Straw, leghorn, whitening	4	. 11
ooper, Isaac	Railroad	9	19
Cooper, Isaac		10	20
ooper, Isaac	Wheel, hub boxes and ship's blocks	10	21
ooper, Isaac	Friction, reducing	13	25
ooper, Isaac	Bedstead	17	30
ooper, Isaac	Bedstead sacking	17	30
ooper, James	Thrashing machine	1	3
ooper, James	Chains from slipping.	1	4
cooper, James	Unain from slipping	13	25
ooper, James.	Cog wheel, suspended	12	25
ooper, James.	Horse, or animal power	13	25
ooper, James	! Crackers, cutting and rolling	1 17	31
cooper, James	Screw, archimedean	19	24
cooper, James	Thrashing machine	1	3
Cooper, John.	Carmage shaft clin for	1 10	20
cooper, John	Wind wheel	1 11	23
ooper, John M.	Auger, boring earthPistons, rotative.		3
		6	

PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Cooper, John W	Paper making, and whitening straw .	3	86
nell and William F. Lukens	Macadamizing roads	9	197
Cooper, Peter	Gelatine, portable preparation	4	108 108
Cooper, Peter	Salt manufacturing	4	115
Cooper, Peter	Salt supplying	4	116
Cooper, Peter	Boilers, steam	6	151 161
Cooper, Peter	Towing canal boats	7	178
Cooper, Peter	Motion, rotary	13	259
Cooper, Peter	Glass and stone grinding	15	288
Cooper, Peter	Cradle	17	311
tin.)	Furnace, puddling and refining iron	2	44
Cooper, Samuel	Bedstead, draw key, double tenon	17	308
Cooper, Thomas	Furnace, puddling anthracite coal	2	44
Cooper, William	Wheels	10 3	212 77
Cooper and Shalk	Loom	3	79
Cooper and Shalk	Loom	3	80
Cooper and Tustin	Tire, bending	10	211
Coover, William	Latch, mortise	18	48 325
Copan, John	Bedstead screw	18	309
Cope, John W	Straw cutter	1	26
Copes, Joseph	Grist mill.	13	252
Cope, Nathan	Steam engine, &c	6 13	158 254
Cope, Samuel	Brakes, carriages self acting	10	205
Cope, Samuel, and J. D	Beehives	1	3
Constant Ass is	Cutting grass	1	11
Copeland, Asa, jr	Gin, cotton ribs	3 6	75 159
Copeland, George M	Grist mill, bush	13	254
Copley, Josiah	Propeller, spiral boat	7	179
Copeley, Luther	Water wheel	11 11	232 233
Copeley, Luther	Mill wheel, double power	13	258
Copperthwaite Job, sen	Well curb	9	201
Coppinger, Joseph	Thrashing and cleaning grain	1	27
Coppinger, Joseph	Distilling iron stills	4	105
copping cr, y coopin	stances	4	114
Coppinger, Joseph	Planing machine	14	272
Coppinger, Joseph	Saw whip, driving	14	277
Coppinger, Joseph	Shingles, splitting	14	279 24
Coppuck James	Brick, moulding	15	286
Corbett, James.	Boring posts	14	266
Cordes, James J	Hulling rice, mortar	l	15 161
Cordes, James J., and Edward Locke, Corliss, George H	Steam engine, rotary	16	300
Cornelison, Jacob	Stove, cooking	5	142
Cornelius, Christian	Wheel hubs, bands	10	214
Cornelius, Christopher	Lamps, lighthouse	5 22	133 359
Cornelius, John D., and James Mott Cornelius, Robert	Lamps, gas, &c		132
Cornelius, Robert	Lamps, lard	5	133
Cornelius, Robert	Lamps, lard, argand burners	5	133
Cornell Abell and N. P. Marchant	Ull Iceders	5 5	134 136
Comell A and IT IZ	StovesChurn	i	130
Cornell, Ezra			

PATENTBES.	HEVENTIONS OR DISCOVERES.	CLASS.	PAGE	
Cornell, Ezra.	Excavating for pipe	9.	19	
Cornell, Gideon		3	•	
Cornell, James	. Transporting weights	10	25	
Cornell, Philip	. Churn	1		
Cornell, Philip	. Knife sharpener	2	4	
Cornell, Philip		14	28	
Cornell, Philip	. Stones, sawing and rounding	14	28	
Cornell, Silas		8	18	
Cornell, Thomas J	Hats, felting and napping	3	7	
Cornell, Thomas J	Stone cutting, &c	15	29	
Corneli, William(not Cornelf)		4	11	
Corning, Ezra, jr	. Hats, manufacture	3	7	
Cornwell, William	. Water wheel, horizontal	11	23	
Corey, David	. Hydraulic elevator	11	22	
Corey, Eliakim		.5	13	
Corey, James H	. Horse power, portable	13	25	
Corkings, Ezra B	. Wine from cider	4	11	
Correll, Israel	. Hulling clover seed	1	1	
Corrill and Rogers	. Spinning wool	3	9. 3	
Corwithe, William	. Thrashing machine	1	110	
Cory, Horace	Lead, white, manufacture	4	25	
Coster and Pennybacker	. Horse power	13	15	
Costill, Stacy	. Steam engine	6	16	
Costill, Stacy	. Valve, face plate	7	170	
Costill, Stacy	. Floating wheel	11	25	
Costill, Stacy	Brick press	15	28	
Costill, Stacy	Brush block	17	309	
Coston, Benjamin F	Gas light	4	106	
Coston, Benton P	Brick and tile	15	287	
Coston, Benton P	Cutting meat.	17	311	
Coston, Benton P	. Feathers, dressing	17	319	
Coston, Benton P	Washing machine	17	316	
Cottle, John	. Winnowing clover seed	i	34	
Cottrell, Albert	. Bridges, building	9	199	
Couillard, Samuel	. Dying and polishing leather	16	296	
Couillard, Samuel, jr	. Flax, hemp, & manilla grass combing	3	72	
Couillard, Samuel, jr	. Wool cleaning	3	95	
Couillard, Samuel, jr	. Plates, etching punched and polished.	18	326	
Couillard, Samuel, jr	Printing press, hand	18	327	
Couillard, Samuel, jr	Printing press	18	327	
Couch and Frary	. Lamps, suspension, barrel	5	133	
Couch and Towne	. Nails, cutting, &c	2	59	
Coulter, James	Balance, weighing	12	240	
Coulter, John		3	81	
Coulter and Gano	. Loom	3	80	
Covel, Emerson G	. Water wheel, combined	11	232	
Sovenhoven, Edward	. Dock, floating dry	9	193	
Cowan, William	Stove, Franklin	5	145	
Jowen, James	. Mill wheel	13	258	
	Cement for cisterns	4	101 315	
ox, Benjamin		17	73	
ox, James		3 5	127	
oxe, James	Fire place, warming buildings Tanning and lifting hides	16	302	
ox, James		22	358	
ox, John		16	301	
ox, John R		17	307	
ox, William	Paint, composition	4	113	
Ox, Zachariah	Saw, circular	14	273	
ozzens, Frederick S		4	104	
Crabtree, John	Blocks, printing colors on silk	18	321	
Cradis, David M	Laths, cutting	14	269	
	Filters and refrigerators	ii	222	

		-	
PATEMENS.	MAENTIONS OF DISCOMBLING.	CLASS.	PAGE.
Craft, Benjamin	Saddles	16	200
Crafts, Chauncey			172
Crafts, Edward, jr	Pot and pearl ash	4	114
Craft, George B	Cutting sausage meat	17 4	311 106
Crafts, Moses		7	173
Craig, Alexander		9	200
Craig, Seth	Loom	3	80
Craig, William and John Cochrane	Loom temples, self acting rotary	3	82
Crail, Joseph	Churn	1	6
Crail, Joseph	Grist mill	13	253
(not Wemple L.)		12	239
Crain, Eleazer	Hernia, curved spine cure	20	342
Crain, Eleazer	Cordage, rope making	3	70
Cralle, Richard K	Salt, manufacturing	4	115
Cram, John S	Press, cheese, &c	12	242
Cram, Smith	Pile for railroads, driving	9	197
Cram, Smith	Removing obstructions under water	.9	199 206
Cram, Smith	Car elevations	10	207
Cram, Smith	Pressing and raising weights	12	245
Cranton, Jesse	Press	12	241
Cranage, Thomas	Boots, cutting	16	293
Crandell, Benjamin K	Laths, hoops, slitting	14	269
Crane, Alanson	Burring machine	3	67
Crane, Aaron D	Clocks	8	183
Crane, Aaron D	Clocks	8	183
Crane, Daniel	Sawing timber	3	277 68
Crane, George	Iron, manufacturing	2	47
Crane, Jonathan	Drilling stone	9	194
Crane, Jonathan	Car, circular	10	206
Crane, Luther	Spinning cotton yarn	3	89
Crane, Robert, jr	Wheels, iron	10	214
Cranson, Samuel	Pill boxes	3 4	82 113
Craw, Martin	Balance steelyards	12	240
Crawford, A. B	Hulling clover, machines	ĩ	13
Crawford, Benjamin	Steam engine boiler and condensor	6	158
Crawford, Ira	Thrashing machine	1	30
Crawford, Obed	Gin, cotton	3	75
Crease and Morgan	Boots and shoes, manufacturing	16	294
Creasey, Charles A	Springs, spiral, carriage	10	211 220
Creed, William	Steam, generating	6	162
Creed, William	Wheels, railroad cars	10	215
Crehore, Benjamin (not Brehore)	Veneer, saw frame	14	360
Creighton, John T.	Lamps, lard	5	132
Crellis, David M	Brick press	15	286
Creashaw, Henry	Water power to wheels	11	229
Cressman, Henry	Stove, cooking, &c Furnace, summer, design	5	144 129
Cresson, W. P., assignee of Stuart and	r drindee, summer, design	•	123
Beesley	Stove, design	5	137
	Stove, design	5	137
Cresson, Sailor, and Stuart		5	146
Cresswell, James		4	112
Crey, Frederick	Chimney, preventing smoking	4	125
Crim, Peter	Saddles, spring	16	299
Criswell, John	Inrashing machine	1	33
Critchfield, Arthur	Milk can	3	94
Crittenden, Artemas	Main Call	1	15

PATRITEES.	inventions or discoveries.	CLASS.	PAGE	
Croasdale, Bazaleel	. Brush machine, broom corn	17	31	
Crocker, Daniel W	. Car, railroad, by horse	10	90	
Crocker, William A	. Cans, cotton	3	6	
Cromelin, Rowland		17	31	
Crompton, William		3	8	
Cromwell, Charles		3	lε	
Cromwell, John,	Plough, double	ĭ	9	
Cromwell, Joseph	Plough	i	î	
Cromwell, Joseph and Henry F.			2	
	Plough, wrought iron	.1		
Cromwell, Simon	Lock, gun	19	33	
Cromwell, William.	Horse mill	13	25	
Crook, Thomas		5	13	
Crooker, Benjamin.	Corn sheller	1		
Crosby, Chs. C. P	Kettles, salt, constructing and setting.	5	13	
Crosbie, George		18	32	
Crosby, N. & P		14	27	
Crosby, Pearson	. Saw mill, portable	14	27	
Crosby, Pearson	. Saw mill, portable	14	27	
Crosby, Pearson	. Saw mill, resawing boards	14	27	
Crosbie, Richard	Loom	3	7	
Crosbie, Richard	Bridges, draw rolling	9	19	
Crosbie, Richard	Powder, granulating	19	33	
Crosbie, Richard	Engine, hydropneumatic	īi	22	
Crosley, George H. (not Crosby)	. Chimney, draught of	5	12	
Cross, Asahel	Furnaces, cooking, portable	5	12	
Cross, Fayette	Thrashing machine	ĭ	30	
Cross, Jeduthan	Hulling grain and cleaning	î	î	
Cross, Jefferson	Stove, cooking	5	146	
Cross & Brown	Flaz seed and paints, grinding	13	25)	
Crossman, Alfred B.	Brick press		286	
	Teapots, Britannia	15		
Crossman, W. W		17	314	
Crossett, Isaac	Barrels, making	14	266	
	Churn	1	7	
Frowell, Elisha	Trip hammer	2	62	
Crowl, George	Plough	1	17	
rowningshield, John	Vessels, heaving down	7	179	
Trumbacker, Jonathan	Razor strap	21	353	
rum, Henry	Screws, cutting threads	2	58	
rum, Henry	Screws, heads and rivets turning	2	59	
Frumber, Solomon	Staves for barrels	14	280	
ruse, Englehart	Steam engine	6	156	
ruse, Englehart	Gin, cotton	3	75	
rutchet, James	Gas light, apparatus	6	154	
rutchfield, Robert	Kiln, brick	15	269	
Fruttenden, Stephen .	Cutting apples and paring	17	311	
ruttenden, Timothy.	Spinning wheel	3	93	
ruttenden, Timothy.	Spinning wheel	3	93	
ryer, Noble G	Plough, twin	ĭ	91	
adlip & Price	Stove pipes	5	146	
ulbertson, Thomas	Brick press	15	287	
ullen, John M	Plough	ĭ	19	
ulp, G. W. D	Apples, grinding cider		249	
ulp, George W. D. and Joseph	Winnowing machine	13	35	
ulver, Jonathan	Shingles, sawing	1	279	
	Flax and hemp machine	14	73	
umberland, William umberland, William	Flar and home uncested machine	3		
nmheeland William	Flax and hemp, unrotted, machine	3	74	
umberland, William umberland, William	Bleaching hemp and flax, unrotted	4	100	
umberiand, William	Lead, white	4	110	
ummings, Benjamin.	Thrashing machine	1	29	
ummings, Benjamin.	Loom	3	80	
ummings, Benjamin,	Shearing cloth	3	87	
ummings, Daniel M.	Shingles, cutting	14	278	
ummings, Jac. A	Pronunciation of syllables	18	328	
	Thrashing machine	1	32	

Cummings, Thayer.         Pressing and raising weights.         12           Cummings, William H.         Straw, cutting.         1           Cumning, William H.         Washing machine.         17           Cundill, William.         Guards, cap spinner.         2           Cunningham, Robert P.         Looms, operating shuttles.         3           Cunningham, Robert P.         Looms, operating shuttles.         3           Cunningham, Robert P.         Pressing machine.         12           Cunningham, Thomas.         Dock, floating, graving.         9           Cunningham, Thomas.         Dock, floating, graving.         9           Currey, Samuel.         Raising water.         11           Currey, Samuel.         Raising water.         11           Currier, E. G.         Stove, cooking.         5           Currier, E. G.         Stove, cooking.         5           Currier, Joseph.         Bells, hanging.         17           Currier, Joseph.         Bells, hanging.         17           Currier, Joseph.         Bells, hanging.         17           Currier, Joseph.         Butter, manufacturing.         1           Curris, Charles.         Steam engine, horizontal.         18           Curris, Charles.	PATENTIO.	ENVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Cummings, Warren			9	195
Cunningham, Robert P.	Cummings, Thayer	Pressing and raising weights	12	245
Cunningham, Robert P.	Cummings, Warren	Straw, cutting		26
Cunningham, Robert P.	Cumming, William A	wasning machine	17	316
Cunningham, Robert P.	Cundell. William.	Guards, can spinner	2	45
Cunningham, Robert P.	Cunningham, Henry	Ice to conduit pipes		223
Cunningham, Rebert P.   Steering wheel.   7   7   1   1   1   1   1   1   1   1			3	81
Cunningham, Rebert P.   Pressing machine   12   12   12   13   13   14   15   15   15   15   15   15   15				81
Cunningham, Thomas.   Dock, floating, graving.   9   2   2   2   2   2   2   2   2   3   3				177
Cunringham and Edmenston.   Press, oil, and straining.   12   Currey, Samuel.   Pump, forcing.   11   1   2   Currey, Samuel.   Raising water.   11   2   Currier, Samuel.   Tanning.   16   3   Currier, E. G.   Stove, cooking.   5   1   Currier, E. G.   Stove, cooking.   5   1   Currier, Jehn H. and W. H. Taber.   Drilling iron.   2   Currier, John H. and W. H. Taber.   Drilling iron.   2   Currier, Nathan.   Excavating and removing earth   9   1   Currier, Rauben W   Butter, manufacturing.   1   Curtis, Charles.   Boilers, asfety.   6   1   Curtis, Charles.   Steam engine, horizontal.   18   Curtis, Charles.   Steam engine, horizontal.   1   Curtis, Charles.   Steam engine, horizontal.   1   Curtis, Charles.   Steam engine, horizontal.   1   Curtis, Charles.   Steam engine, horizontal.   1   Curtis, Charles.   Steam engine, horizontal.   6   1   Curtis, Elijah S.   Gristmill.   13   Curtis, Elijah S.   Brush machine, whitewashing.   17   Curtis, F. C.   Harness, coller.   16   Curtis, Janus F.   Spark catcher.   6   1   Curtis, John.   Stove, cooking.   5   1   Curtis, John.   Stove, cooking.   5   1   Curtis, John.   Stove, cooking.   5   1   Curtis, John.   Gold mill, ore.   2   Curtis, Joseph.   Gold mill, ore.   2   Curtis, Joseph.   Gold mill, ore.   2   Curtis, Joseph.   Gold mill, ore.   2   Curtis, Philo C.   Carding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3   Curtis, Philo C.   Curding and spinning wool.   3				245 194
Currey, Samuel   Pump, forcing   11   22   Currie, Samuel   Raising water   11   22   Currie, Samuel   Tanning   16   3   3   5   5   5   5   5   5   5   5				244
Curriey, Samuel.				226
Currier, E. G.	Currey, Samuel.		11	228
Stove, cooking.   5   1				30f
Currier, Ebenezer R				140
Currier, John H. and W. H. Taber.   Drilling iron.   2   Currier, Joseph.   Bells, hanging.   17   3   Currier, Rouben W.   Thrashing and winnowing.   1   Curtis, Asahel.   Butter, manufacturing.   1   Curtis, Charles.   Belder, manufacturing.   1   Curtis, Charles.   Butter, manufacturing.   1   Curtis, Charles   Steam engine, horizental.   6   Curtis, Charles W.   Bedstead   17   Curtis, Elijah S.   Gristmill.   13   Curtis, Elijah S.   Brush machine, whitewashing.   17   3   Curtis, James.   Window, sash springs.   2   Curtis, James.   Window, sash springs.   2   Curtis, John.   Stove, cooking.   5   Curtis, Joseph.   Grist mill.   13   Curtis, Joseph.   Gold mill, ore.   2   Curtis, Joseph.   Gold mill, ore.   2   Curtis, Lemuel.   Clocks   Steam engine.   6   Curtis, Philo C.   Carding, Philo C.   Carding, Philo C.   Carding, Philo C.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Curtis, Curtis, Samuel.   Curtis, Maneus.   Curtis, Samuel.   Curtis, Curtis, Samuel.   Curtis, Samuel.   Curtis, Curtis, Curtis, Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Curtis, Curtis, Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Samuel.   Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis, Curtis,		Piana forte harizantal	مَا	140
Currier, Joseph				326 42
Currier, Nathan.		Bells, hanging		309
Curtis, Asahel		Excavating and removing earth	9	195
Curtis, Charles		Thrashing and winnowing		33
Curtis, Charles         Steam engine, horizontal         6         1           Curtis, Charles W         Bedstead         17         3           Curtis, Elijah S         Gristmill         13         3           Curtis, Elijah S         Brush machine, whitewashing         17         3           Curtis, James         Window, sash springs         2         2           Curtis, James         Window, sash springs         2         2           Curtis, Janus F         Spark catcher         6         1           Curtis, Jose         Stove, cooking         5         1           Curtis, Jose         Gold mill         2         6           Curtis, Joseph         Gold mill, ore         2         2           Curtis, Joseph         Gold mill, ore         2         2           Curtis, Joseph         Gold mill, ore         2         2           Curtis, Junia         Steam engine         6         1           Curtis, Junia         Steam engine         6         1           Curtis, Lerrain         Plaining machine         14         2           Curtis, Philo C         Forges, backs         2           Curtis, Philo C         Cording and spinning wool         3		Butter, manufacturing		4
Curtis, Charles W.         Bedstead         17         3           Curtis, Elijah S.         Gristmill         13         2           Curtis, Elijah S.         Brush machine, whitewashing         17         3           Curtis, James         Window, sash springs         2         16           Curtis, James         Window, sash springs         2         2           Curtis, James         Window, sash springs         2         2           Curtis, Joseph         Stove, cooking         5         1           Curtis, Joseph         Grist mill         13         2           Curtis, Joseph         Gold mill, ore         2         2           Curtis, Joseph         Gold mill, ore         2         2           Curtis, Junia         Steam engine         6         1           Curtis, Junia         Steam engine         6         1           Curtis, Lerrain         Planing machine         14         2           Curtis, Marcus         Varnish for furniture         4         1           Curtis, Philo C         Forges, backs         2           Curtis, Philo C         Loom, temples         3           Curtis, Philo C         Loom, water         3		Steem engine horizontal	1 -	153
Curtis, Elijah S.         Gristmill				158 307
Curtis, Elijah S.         Brush machine, whitewashing.         17         3           Curtis, F. C.         Harness, coller.         16         2           Curtis, James.         Window, sash springs.         2           Curtis, Janus F.         Spark catcher.         6         1           Curtis, Joel.         Plates, clocks, boring.         8         1           Curtis, John.         Stove, cooking.         5         1           Curtis, John.         Grist mill.         13         2           Curtis, Joseph.         Gold mill, ore.         2         2           Curtis, Junia.         Steam engine.         6         1           Curtis, Junia.         Steam engine.         6         1           Curtis, Lemuel.         Clocks.         8         1           Curtis, Junia.         Steam engine.         4         2           Curtis, Marcus.         Varnish for furniture.         4         1           Curtis, Philo C.         Carding and spinning wool. <td></td> <td></td> <td></td> <td>253</td>				253
Curtis, James.         Window, sash springs.         2           Curtis, Janus F.         Spark catcher.         6           Curtis, Joel.         Plates, clocks, boring.         8           Curtis, John.         Stove, cooking.         5           Curtis, Joseph.         Gold mill, ore.         2           Curtis, Joseph.         Gold mill, ore.         2           Curtis, Joseph.         Gold mill, ore.         2           Curtis, Junia.         Steam engine.         6           Curtis, Lemuel.         Clocks.           Curtis, Lemuel.         Clocks.           Curtis, Joseph.         Gold mill, ore.         2           Curtis, Lemuel.         Clocks.         8           Curtis, Philo C.         Courtis, Philo C.         Loom.         3		Brush machine, whitewashing		310
Curtis, Janus F.         Spark catcher.         6         1           Curtis, John.         Stove, cooking.         5         1           Curtis, Jorathan.         Grist mill.         13         2           Curtis, Joseph.         Gold mill, ore.         2         2           Curtis, Joseph.         Gold mill, ore.         2         2           Curtis, Junia.         Steam engine.         6         1           Curtis, Lemuel.         Clocks         8         1           Curtis, Lerrain.         Planing machine.         14         2           Curtis, Marcus.         Varnish for furniture         4         1           Curtis, Philo C.         Carding and spinning wool.         3         2           Curtis, Philo C.         Loom, temples.         3         3           Curtis, Philo C.         Loom, water.         3         3           Curtis, Philo C.         Boilers, steam engine.         6         6           Curtis, Philo C.         Boilers, steam engine.         1         2           Curtis, Philo C.         Boilers, steam engine.         6         6           Curtis, Philo C.         Boilers, steam engine.         1         2           Curtis, Samuel	Curtis, F. C.	Harness, coller		296
Curtis, Joeh.       Plates, clocks, boring.       8         Curtis, John.       Stove, cooking.       5         Curtis, Joseph.       Grist mill.       13         Curtis, Joseph.       Gold mill, ore.       2         Curtis, Junia.       Steam engine.       6         Curtis, Lemuel.       Clocks.       8         Curtis, Lemuel.       Clocks.       8         Curtis, Lemuel.       Clocks.       8         Curtis, Marcus.       Varnish for furniture.       4         Curtis, Philo C.       Forges, backs.       2         Curtis, Philo C.       Carding and spinning wool.       3         Curtis, Philo C.       Loom, temples.       3         Curtis, Philo C.       Loom, water.       3         Curtis, Philo C.       Pumps       11         Curtis, Samuel       Varie, horizontel       12		Window, sash springs		63
Curtis, John.         Stove, cooking.         5         1.           Curtis, Joseph.         Grist mill.         13         2.           Curtis, Joseph.         Gold mill, ore.         2         2           Curtis, Joseph.         Gold mill, ore.         2         2           Curtis, Joseph.         Gold mill, ore.         2         2           Curtis, Junia.         Steam engine.         6         1           Curtis, Lerrain.         Clocks         8         1           Curtis, Lerrain.         Planing machine.         14         2           Curtis, Marcus.         Varnish for furniture.         4         1           Curtis, Philo C.         Eoges, backs.         2         2           Curtis, Philo C.         Loom.         3         3           Curtis, Philo C.         Loom, temples.         3         3           Curtis, Philo C.         Boilers, steam engine.         6         1           Curtis, Philo C.         Pumps.         11         2           Curtis, Philo C.         Power by cams and inclined planes.         13         2           Curtis, Philo C.         Pumps.         11         2           Curtis, Samuel         Water wheel, helving o				155
Curtis, Joseph.         Grist mill.         13         2           Curtis, Joseph.         Gold mill, ore.         2           Curtis, Junia.         Steam engine.         6           Curtis, Lerrain.         Clocks         8           Curtis, Marcus.         Varnish for fursiture.         4           Curtis, Philo C.         Forges, backs.         2           Curtis, Philo C.         Carding and spinning wool.         3           Curtis, Philo C.         Loom.         3           Curtis, Philo C.         Loom, temples.         3           Curtis, Philo C.         Boilers, steam engine.         6           Curtis, Philo C.         Pumps.         11           Curtis, Philo C.         Power by cams and inclined planes.         13           Curtis, Philo C.         Power by cams and inclined planes.         13           Curtis, Samuel         Water wheel, horizontal.         11           Curtis, Samuel         Water wheel, horizontal.         11           Curtis, T. and D.         Wheel hubs, bushing.         10				186 141
Curtis, Joseph         Gold mill, ore         2           Curtis, Joseph         Gold mill, ore         2           Curtis, Joseph         Gold mill, ore         2           Curtis, Joseph         Gold mill, ore         2           Curtis, Junia         Steam engine         6           Curtis, Lenuel         Clocks         8           Curtis, Lenuel         Planing machine         14           Curtis, Marcus         Varnish for furniture         4           Curtis, Philo C         Carding and spinning wool         3           Curtis, Philo C         Loom         3           Curtis, Philo C         Loom, temples         3           Curtis, Philo C         Boilers, steam engine         6           Curtis, Philo C         Boilers, steam engine         11           Curtis, Philo C         Power by cams and inclined planes         13           Curtis, Philo C         Power by cams and inclined planes         13           Curtis, Samuel         Clap boards, bevelling ends         14           Curtis, Samuel         Water wheel, horizonteal         11           Curtis, T. and D         Water wheel, letting on water         11           Curtis and Bradley         Wheel hubs, bushing         10				252
Curtis, Joseph         Gold mill, ore         2           Curtis, Junia         Steam engine         6           Curtis, Lenuel         Clocks         8           Curtis, Lerrain         Planing machine         14           Curtis, Philo C         Forges, backs.         2           Curtis, Philo C         Carding and spinning wool         3           Curtis, Philo C         Loom         3           Curtis, Philo C         Loom, temples         3           Curtis, Philo C         Boilers, steam engine         6         1           Curtis, Philo C         Pumps         11         2           Curtis, Philo C         Power by cams and inclined planes         13         2           Curtis, Philo C         Power by cams and inclined planes         13         2           Curtis, Philo C         Power by cams and inclined planes         13         2           Curtis, Philo C         Power by cams and inclined planes         13         2           Curtis, Samuel         Water wheel, horizontal         11         2           Curtis, Samuel         Water wheel, horizontal         11         2           Curtis, T. and D         Wheel hubs, bushi				45
Curtis, Junia         Steam engine         6           Curtis, Lemuel         Clocks         8           Curtis, Lerrain         Plaining machine         14           Curtis, Marcus         Varnish for furniture         4           Curtis, Philo C         Carding and spinning wool         3           Curtis, Philo C         Loom         3           Curtis, Philo C         Loom, temples         3           Curtis, Philo C         Boilers, steam engine         6           Curtis, Philo C         Boilers, steam engine         11           Curtis, Philo C         Power by cams and inclined planes         13           Curtis, Philo C         Power by cams and inclined planes         13           Curtis, Philo C         Power by cams and inclined planes         13           Curtis, Philo C         Power by cams and inclined planes         13           Curtis, Russel         Power by cams and inclined planes         13           Curtis, Samuel         Water wheel, horizonted         11           Curtis, Samuel         Water wheel, horizonted         11           Curtis, T         and D         Water wheel, horizonted         11           Curtis, T         and D         Wheel hubs, bushing         10	Cartis, Joseph			45
Curtis, Lemuel.         Clocks         8           Curtis, Lerrain.         Planing machine         14           Curtis, Marcus         Varnish for furniture         4           Curtis, Philo C         Forges, backs         2           Curtis, Philo C         Loom         3           Curtis, Philo C         Loom, temples         3           Curtis, Philo C         Loom, water         3           Curtis, Philo C         Boilers, steam engine         6           Curtis, Philo C         Pumps         11           Curtis, Philo C         Power by cams and inclined planes         13           Curtis, Russel         Pliers, cutting         2           Curtis, Samuel         Clap boards, bevelling ends         14         2           Curtis, Samuel         Water wheel, horizontel         11         2           Curtis, Thaddeus B         Ovens, portable         5         5           Curtis, Tand D         Wheel hubs, bushing         10         2           Curtis and Bradley         Wheels, teeth and pinions         8         1           Curtis and Yale         Horse power         13         1           Curtis and Yeaman         Steam engine         6         1			• -	44
Curtis, Lerrain.         Planing machine.         14         2           Curtis, Marcus.         Varnish for furniture.         4         1           Curtis, Philo C.         Forges, backs.         2         2           Curtis, Philo C.         Loom.         3         3           Curtis, Philo C.         Loom, temples.         3         3           Curtis, Philo C.         Boilers, steam engine.         6         1           Curtis, Philo C.         Power by cams and inclined planes.         13         2           Curtis, Philo C.         Power by cams and inclined planes.         13         2           Curtis, Philo C.         Power by cams and inclined planes.         13         2           Curtis, Philo C.         Power by cams and inclined planes.         13         2           Curtis, Russel.         Power by cams and inclined planes.         13         2           Curtis, Samuel         Clap boards, bevelling ends.         14         2           Curtis, Samuel         Water wheel, horizontal.         11         2           Curtis, Thaddeus B.         Owens, portable.         5         5           Curtis, T. and D.         Wheel hubs, bushing.         10         2           Curtis and Bradley.			1 <u>-</u>	156
Curtis, Marcus         Varnish for furniture         4         1           Curtis, Philo C         Forges, backs         2           Curtis, Philo C         Loom         3           Curtis, Philo C         Loom         3           Curtis, Philo C         Loom, water         3           Curtis, Philo C         Boilers, steam engine         6           Curtis, Philo C         Pumps         11           Curtis, Philo C         Power by cams and inclined planes         13           Curtis, Philo C         Pliers, cutting         2           Curtis, Samuel         Clap boards, bevelling ends         14           Curtis, Samuel         Water wheel, horizontal         11           Curtis, Tando         Water wheel, letting on water         11           Curtis, Tand D         Wheel hubs, bushing         10           Curtis and Bradley         Wheels, teeth and pinions         8           Curtis and Yeaman         Steam engine         6           Curtis and Yeaman         Steam engine         14           Cushawa, Benjamin         Saw mill, self-adjusting log brace         14				183 272
Curtis, Philo C.         Forges, backs.         2           Curtis, Philo C.         Carding and spinning wool.         3           Curtis, Philo C.         Loom.         3           Curtis, Philo C.         Loom, temples.         3           Curtis, Philo C.         Boilers, steam engine.         6           Curtis, Philo C.         Power by cams and inclined planes.         13           Curtis, Philo C.         Power by cams and inclined planes.         13           Curtis, Russel.         Pliers, cutting.         2           Curtis, Samuel W.         Clap boards, bevelling ends.         14           Curtis, Samuel.         Water wheel, horizontal.         11           Curtis, T. and D.         Wheel hubs, bushing.         10           Curtis and Bradley.         Wheel hubs, bushing.         10           Curtis and Yale.         Horse power         13           Curtis and Yeaman.         Steam engine.         6           Cushawa, Benjamin.         Saw mill, self-adjusting log brace.         14				118
Curtis, Philo C.         Carding and spinning week.         3           Curtis, Philo C.         Loom.         3           Curtis, Philo C.         Loom, water.         3           Curtis, Philo C.         Boilers, steam engine.         6           Curtis, Philo C.         Pumps.         11           Curtis, Philo C.         Power by cams and inclined planes.         13           Curtis, Russel.         Power by cams and inclined planes.         14           Curtis, Samuel         Water wheel, horizontal.         11           Curtis, Samuel.         Water wheel, horizontal.         11           Curtis, Thaddeus B.         Ovens, portable.         5           Curtis, T. and D.         Wheel hubs, bushing.         10           Curtis and Bradley.         Wheels, teeth and pinions.         8           Curtis and Yale.         Horse power.         13           Curtis and Yale.         Steam engine.         6           Cushawa, Benjamin.         Saw mill, self-adjusting log brace.         14			1 =	43
Curtis, Philo C.         Loom, temples.         3           Curtis, Philo C.         Loom, water.         3           Curtis, Philo C.         Boilers, steam engine.         6           Curtis, Philo C.         Pumps.         11           Curtis, Philo C.         Power by cams and inclined planes.         13           Curtis, Samuel         Pliers, cutting.         2           Curtis, Samuel         Clap boards, bevelling ends.         14           Curtis, Samuel         Water wheel, horizontal         11           Curtis, Thaddeus B.         Ovens, portable.         5           Curtis, T. and D.         Wheel hubs, bushing.         10           Curtis and Bradley.         Wheels, teeth and pinions.         8           Curtis and Yale.         Horse power         13           Curtis and Yeaman.         Steam engine.         6           Cushawa, Benjamin.         Saw mill, self-adjusting log brace.         14				68
Curtis, Philo C.         Loom, water.         3           Cartis, Philo C.         Boilers, steam engine.         6           Curtis, Philo C.         Pumps         11           Curtis, Philo C.         Power by cams and inclined planes.         13           Curtis, Samuel         Clap boards, bevelling ends.         14           Curtis, Samuel.         Water wheel, horizontel.         11           Curtis, T. and D.         Water wheel, letting on water.         11           Curtis, T. and D.         Wheel hubs, bushing.         10           Curtis and Bradley.         Wheels, teeth and pinions.         8         1           Curtis and Yale.         Horse power.         13         2           Curtis and Yeaman.         Steam engine.         6         1           Cushawa, Benjamin.         Saw mill, self-adjusting log brace.         14         2				79
Cartis, Philo C.       Boilers, steam engine.       6       1         Curtis, Philo C.       Pumps.       11       2         Curtis, Philo C.       Power by cams and inclined planes.       13       2         Curtis, Russel.       Pliers, cutting.       2       2         Curtis, Samuel       Clap boards, bevelling ends.       14       2         Curtis, Samuel.       Water wheel, horizontal.       11       2         Curtis, Thaddeus B.       Ovens, portable.       15       1         Curtis, T. and D.       Wheel hubs, bushing.       10       2         Curtis and Bradley.       Wheels, teeth and pinions.       8       1         Curtis and Yale.       Horse power.       13       2         Curtis and Yeaman.       Steam engine.       6       1         Cushawa, Benjamin.       Saw mill, self-adjusting log brace.       14       2				82
Curtis, Philo C.       Pumps       11       2         Curtis, Philo C.       Power by cams and inclined planes.       13       2         Curtis, Russel.       Pliers, cutting.       2       2         Curtis, Samuel       Clap boards, bevelling ends       14       2         Curtis, Samuel.       Water wheel, horizontal       11       2         Curtis, Thaddeus B.       Ovens, portable       5       5         Curtis, T. and D.       Wheel hubs, bushing       10       2         Curtis and Bradley       Wheels, teeth and pinions       8       1         Curtis and Smith       Blocks, sheaves       7       1         Curtis and Yale       Horse power       13       2         Curtis and Yeaman       Steam engine       6       1         Cushawa, Benjamin       Saw mill, self-adjusting log brace       14       2				83 152
Curtis, Philo C.       Power by cams and inclined planes.       13       2         Curtis, Russel.       Pliers, cutting.       2         Curtis, Samuel W.       Clap boards, bevelling ends.       14         Curtis, Samuel.       Water wheel, horizontal.       11         Curtis, Thaddeus B.       Ovens, portable.       5         Curtis, T. and D.       Wheel hubs, bushing.       10         Curtis and Bradley.       Wheels, teeth and pinions.       8       1         Curtis and Smith.       Blocks, sheaves.       7       1         Curtis and Yale.       Horse power       13       2         Curtis and Yeaman.       Steam engine.       6       1         Cushawa, Benjamin.       Saw mill, self-adjusting log brace.       14       2				224
Curtis, Samuel       Clap boards, bevelling ends       14       2         Curtis, Samuel       Water wheel, horizontal       11       2         Curtis, Samuel       Water wheel, letting on water       11       2         Curtis, Thaddeus B       Overs, portable       5       1         Curtis, T. and D       Wheel hubs, bushing       10       2         Curtis and Bradley       Wheel hubs, bushing       10       2         Curtis and Smith       Blocks, sheaves       7       1         Curtis and Yale       Horse power       13       2         Curtis and Yeaman       Steam engine       6       1         Cushawa, Benjamin       Saw mill, self-adjusting log brace       14       2				260
Curtis, Samuel			1	55
Curtis, Samuel       Water wheel, letting on water       11       2         Curtis, Thaddeus B       Ovens, portable       5         Curtis, T. and D       Wheel hubs, bushing       10         Curtis and Bradley       Wheels, teeth and pinions       8         Curtis and Smith       Blocks, sheaves       7         Curtis and Yale       Horse power       13         Curtis and Yeaman       Steam engine       6         Cushawa, Benjamin       Saw mill, self-adjusting log brace       14				267
Curtus, Thaddeus B	Curtin Samuel	Water wheel letting on wester	1 11	233 233
Curtis, T. and D		Ovens, portable	15	134
Curtis and Bradley		Wheel hubs, bushing	10	214
Curtis and Smith	Curtis and Bradley	Wheels, teeth and pinions	8	187
Curtis and Yeaman Steam engine 6 1 Cushawa, Benjamin Saw mill, self-adjusting log brace 14 2	Curtis and Smith	Blocks, sheaves	7	167
Cushawa, Benjamin Saw mill, self-adjusting log brace 14 2				255
				156 276
	Cushwa, Benjamin			2/0
	Cushing, Alvin D.	Lock, percussion		336

Patent <b>res.</b>	INVENTIONS OR DISCOVERSES.	CLASS.	PAGE
Cushman, Alfred	Clay and sand, grinding	15	98
Cushman, William M. C	Rails for railroad tracks	10	90
Cushman and Loomis	Boats, passenger	7	10
Custer, Jacob D	Steam engine, governing	6	15
Custer, Jacob D	Clocks	8	18
Custer, Jacob D		8	18
Custer and Ponepacker	Horse power	13	2:
Custis, John	Raising vessels, machinery	7	17
Cutter, David	Distilling	4	10
Cutler, Jonathan	Corn, husking	1	
Cutter, Buel	Churn	1	
Cutter, Calvin	Truss	20	34
Cutter, Ephraim	Fur, cutting	3	7
Cutter, Ephraim	Hair from fur	3	3
Cutter, Ephraim.	Hair from fur	3	7
Cutter, Ephraim	Loom, crank	3	
Cutter, Ezekiel and Stephen Blanchard	Mills, stones, composition	13	25
Cutting, James A	Beehives	1	_
Cutting, James A., and Geo. Butterfield.	Cars, coupling	10	20
Cutting, Lewis	Spinning machine, stop draw'g frames	3	9
Sutting, Nathaniel	Cordage, spinning rope yarn	3	7
Cutting, Nathaniel.	Cables	7	16
Daboll, Ezekiel	Stove, cooking	5	13
Daboll, Ezekiel	Stove, foot	5	14
Daboll, Ezekiel	Engine, fire	11	22
Dabney, William	Raising water	ii	22
Dagget and Kensett	Preserving animal substances	4	ĩi
Dahl, Christopher F	Balance steel yards	12	24
Dainty, John	Printing checks, preventing counterfeit	18	32
Oakin, James H	Tents, portable insect	22	35
Dale, J. B	Balance platform	12	23
Daley, Jacob	Bedstead, portable	17	30
Daley, Jacob	Chairs	17	31
Dalie, Silas	Water wheel, horizontal	îi	23
Dalliba, John.	Crucible making	15	28
almas, Charles	Powder granulating	19	33
	Garments, measure of	21	35
Damon, Isaac	Gridirons	5	13
amphier, Christopher E.	Balance weighing apparatus	12	24
ana, Aaron	Boots and shoes, water proof	16	29
	Beams, iron, pattern for	2	4
	Lotteries, drawing	8	18
	Shingle cutter	14	27
	Barrels, gun, turning lathe	19	33
	Flax and hemp machine	3	7.
CV- 1 217	Carriage	10	20
ana, Stephen W	Washing machine	17	31
	Locks, perplexing	2	5
	Saw mill carriages	14	27
anforth, Charles	Bobbin and flyers	3	6
anforth, Charles	Spinning cap spinner, &c	3	8
anforth, Charles	Spinning cap spinner, oiling	3	8
anforth, Charles	Spinning roping cotton	3	9
anforth, Charles.	Spinning throstle	3	9
anforth, Charles	Spinning and twisting	3	9
anforth, Elijah H	Yoke, horse	ĭ	3
anforth, George	Spinning speeder, counter twist	3	9
anforth, George	Friction rollers	13	25
aniels, Charles, ass'nce of W.W. South-			
	Screws cutting, for gimlets	2	5
	Caissons for piers of bridges	<b>9</b>	19

		-	
PATEMPERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Daniels, Henry and Charles	Fire arms, many chambered	19	884
Daniel, Phiness	Shot manufactory		337
Daniels, Reuben	Nails, wrought	2	54
Daniels, Reuben	Cloth, reducing worn out	3	69
Daniels, Reuben	Cloth, manufacturing	3	69
Daniels, Reuben	Shearing cloth	3	88
Daniels, Reuben	Shearing woollen cloth	3	88
Daniels, Reuben	Planing machine	14	272
Danielson, Asa	Fulling mill	3	74
Danielson, Asa	Water wheel, letting on water	11	233
Danly, Edmund C	Wheel, elliptical cog	13	261
Daplyn, Thomas	Lock, percussion gun	19	335
Darby, Calvin	Wheel boxes, casting	10	212
Darby, Joseph H	Mortising and tenening	14	271
Darden, Josiah	Press, cotton, water power	12	243
Dare, Rencore	Nails and spike, heading	2	12 54
Darling, A. and B	Water wheel	11	230
Darling, B. and B. M	Pistols	19	336
Darling, Eliakim C	Truss	20	344
Darling, James	Flouring mills, combining smut with		
<b>5</b>	scouring stones	13	251
Darling, Jeremiah	Thrashing and reaping grain	Ĭ	33
Darling, Jeremiah	Forge bellows	2	43
Darling, Riley	Crackers, making	17	311
Darmand, Charles	Saw mill, saw gate	14 11	274 223
Darracott, George	Punches, power press	2	56
Darricott, George and Joseph Nason	Gass burners, argand	5	129
Darrow, Jedediah	Churn	1	6
Darrah and Kinsey	Thrashing grain & hulling slover seed	`ī	28
Daskam and Wood	Crackers, ship bread	17	311
Dart, Jos., jr., W. Wells & D. Olmstend.		3	78
Dart, J. W., W. Webster & H. Webster Dart and Webster	Grist mill	13 11	253 229
Dart and Wood	Water power to mills	ii	229
Dauvergne, Peter L	Gold washing	2	45
Davee, Barnabas	Straw cutting	1	26
Davenport, Charles	Car, railroad, stopping, easing shock.	10	207
Davenport, James	Loom, sail cloth	3	82
Davenport, Moses	Thrashing machine, &c	1	32
Darennost Moses	Thrashing and winnowing	1	33
Davenport, Moses	Horse power	13 13	255 256
Davenport, Moses	Horse power, endless chain	13	256
Davenport, Thomas	Electro magnetism	8	184
Davenport and Bridges, assignees of Chas.	•		**
Davenport	Railroad, short curves	9	199
Davey, James	Nails, heading cut	2	52
David, John	Varnish for leather	.4	118
Davies, S. H	Hydrants and fire plugs	11	223
Davies, Thomas A	Clocks, improvement in	8 8	183 184
Davies, Thomas A	Clocks, improvement in	ıı	223
Davis, Abbott R	Brushes, filling blocks with bristles	17	310
Davis, Amos		10	210
Davis, Ari	Cock stop	11	220
Davis, Ari	Mitring and dovetailing	14	270
Davis, Ari	Dovetailing boards	14	267
Davis, Daniel		18	35 200
Davis, Daniel		17	322 311
Davis, David		i	10
,			

PATENTRES.	IMPENTIONS OR DISCOPPIES.	CLASS.	PAGE.
Davis, David St. L	Kiln, drying malt	5	194
Davis, Elias	Water wheel, tub or thread	11	220
Davis, Fred. (see Force and Davis	Axletrees, boxes for	10	25
Davis, Frederick		10	211
Davis, George	Rake, hay and grain harrow	l	25 156
Davis, George and George W		6	16
Davis, Gideon	Plough	i	12
Davis, Gideon		2	69
Davis, Henry G		3	92
Davis, Henry S	Boots, crimping front	16	291
Davis, James	Tanning leather	16	305
Davis, James		51	352
Davis, James, jr	Booms, saddle and jaws for	7	169
Davis, Jane A., adm'x of Hy. G. Davis	Cotton whinners and cleaners	3	71
Davis John H	Cotton whippers and cleaners	2	49
Davis, John R	. Lock, door	17	315
Davis, Joseph S		18	323
Davis, Joshua	Straw cutter	1	26
Davis, Josiah S	Keys, watch	8	185
Davis, Luther	. Water wheel, reacting lever	11	234
Davis, Luther			270
Davis, Luther.	Washing machine	17	317
Davis, Marvel,		19 8	335 185
Davis, Moses	Lotteries, constructing and drawing Wheel, weather cock	13	261
Davis, Perry	Steel, hardening	2	61
Davis, Perry		5	128
Davis, Perry	. Wind mill	11	235
Davis, Perry	Grist mill	13	253
Davis, Phineas	Coal, anthracite, combustion of	5	125
Davis, Phineas	Steam engine, vibrating	6	162
Davis, Phineas	Wheels, chilling	10 7	213
Davis, Robert	Tow line, holding apparatus	ıi	178 227
Davis, Sampson	Pump, vibrating	i	10
Davis, Samuel		2	56
Davis, Samuel	Zinc or speltre manufacture	2	64
Davis, Samuel	. Zinc or speltre manufacture	2	64
Davis, Samuel	. Excavator, mud machine, floating	9	196
Davis, Samuel.		9	196
Davis, S., H. P. Babbit, and B. P. Grin		17	307
nell	Seals, watch	18	328
Davis, Shadrack, jr	Nails, wrought	2	54
Davis, Shadrack, jr	Earth, removing	9	195
Davis, Timothy	Propelling boats or carriages	7	173
Davis, Timothy	Water, obtaining	9	201
Davis, William	Winnowing wheat	2	36 45
Davis William	Oreg aweening and washing	2	54
Davis, William	Corns, eradicating	20	342
Davis, William A	. Car, railroad	10	206
Davis, William B	. Thrashing clover seed	1.	27
Davis and Ashdown	. Car, railroad		206
Davis and Carey	. Winnowing and thrashing		36
Davis and Field			59
Davis and Holmes			31 149
Davis and Price	Stove, cooking, anthracite	9	196
Davidson, Amory			317
Davison, Clement			326
Davidson, Jesse W			3

PATEMTRES.	inventions or discoveries.	CLASS.	PAG
avidson, John	Churn, horizontal	1	
avidson, John	Shearing cloth	ŝ	
Davidson, John	Lamps	5	1
Davidson, John M	Lock, wagon	10	2
Davidson, Oliver	Stove, cooking, &c	5	1
Davidson, Oliver	Doors, closing	9	1
Davison, Samuel	Flax, breaking	3	1
Davison, William	Copy books, binding	18	3
avison, William	Pen, fountain	18	3
avison, William	Writing on glass, composition for	18	3
avison, William C	Flax and hemp machine	3	_
avidson and Clark	Diving suit	7	] ]
avoll, William C	Spinning, double speeder	3	
avy, John T	Bakers	5	1
avy, John T	Stoves, cooking	5	1
awes, Isaac	Tanning leather	16	3
awkins, Johnson	Thrashing machine	1	1
awley, Augustus S	Splitting leather and skins	16	3
awley, Augustus S	Steam engine	6	1
awley, Augustus S	Valve, throstle	6	]
awley, Stafford	Saw, double toothed	14	
awson, Jones	Suspenders, manufacturing	21	3
awson and Rucker	Boats for rivers	7	
ay, Augustus	Combustion and explosive power	6	
ay, Augustus	Sleigh	10	1
ay, Ebenezer	Clap boards, lath staves	13	
ay, George L	Shingle sawing machine	14	2
ay, George L	Shingles, dressing and smoothing	14	1
ay, Henry and Jac	Locks	2	١,
ay, Horace H	Hose, construction of	4	]
ay, Horace H	Boat, India rubber portable	7	]
ay, Horace H	India rubber shurred	22	1
ay, Moses	Hemp for spinning	3	i
ay, Moses	Spinning hemp	3	l
ay, Moses	Spinning hemp, flax	3	1
ay, Moses	Spinning hemp, flax	3	1
ay, Nathaniel C	Wheel hubs, greasing, &c	10	9
ay, Silas	Fire arms	19	3
ay, Silas	Fire arms, self loading and priming	19	1
ay, Silas and Samuel Hall	Fire arms, gun breech	19	
ay, S. D. and W. T	Cooking apparatus	5	Ì
ay, Tyer and Helm	India rubber, cutting	4	1
ay, William	Candles, dipping	4	i
ayton, Giles	Straw cutter	i	٠ '
ayton, Hoyt and White	Coffins from cement	22	:
ayton and Mallory	Lathe, turning whip stocks	13	
ayton and Stedman	Lathe, turning rake teeth	13	9
eakyns, John	Plough, bar share	ī	1 -
eakyne, John	Straw cutter		1
eakyne, John	Winnowing wheat	ĩ	1
eane, Ezra	Pills, rheumatic	4	1 :
eane, Ezra	Pills, rheumatic	4	
eane. Jonathan R	Apples, grinding	13	9
eane, Oliver	Washing machine	17	
ean, Samuel S	Washing machine	17	
ean, Linus	Vice bench	2 .	
ean, Thomas J	Corn sheller	1	
eane, William	Raft	7	1
Dean, William		1	1
ean and Woodhull	Thrashing, hulling, and grinding	1	1
ear, David	Bitterings from salt, kettles, separating	4	1
Dearborne, Benjamin	Anglet	8	
beechorn Benjamin	Balance, steel yards	12	1 :

PATENTEED.	•	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Dearborn, Benjamin	G	Frist mill, double centred	13 .	254
Dearborn, Benjamin		Brick and mortar, alternate	15	296
Dearborn, Benjamin		Candlestick	5	194
Dearborn, Henry		Balance	12	235
Dearborn, John M.		umps	iī	224
Dearborn, Nathan H		awing furrow boards	14	277
Deats, John		Plough	i	17
Deats, John, by Horace, assignee		Plough	î	17
Deats, John		Plough	ī	i
Deats, John		Plough	ì	l ii
Deaves, Isaac		Mantel piece, cast iron	5	13
Deaver, John		Plough	i	1
Debit, William		Lags, cleaning	3	8
Debit, William		Lags, cleaning	3	l š
Debit, William			_	1
Debow, C. S		Bedstead	17	36
De Bretton, J		bugar making	1 4	lii
De Butts, Elisha		ead, white	4	10
De Carrendeffez, Baron A		Paint, yellow	4	11
De Carrendeffez, B. A.		Color, preparation of green	4	10
Decatur and Tatham		Shoes, horse	2	1 5
Decker, Abraham		Bee house	1 -	,
Decker, Israel		wine, tarring and spooling	3	9
Decker, Jac		Distilling still	4	10
De Crouy, N. H. J. F. C.	S	team engine, rotary		1 16
Dederick, Levi		Hay press, Kinderhook, N. Y., June		1 1
Dodoron, Lierrinia		24, 1843, omitted	12	1
Deering, Richard		alt manufacturing, and boring wells.	4	111
Deering, Richard, senior		Hemp machine	3	1 7
Deering, Richard, senior		Iemp, preparation	4	10
Degen, Francis	Ī	Hats, setting or ironing the brims	3	1
De Grandval, Hy. G		ife preserver	7	17
Deitz, A		Jarness pad, elastic, water proof	16	29
Deitz, John	5	Shoes, horse		
Dekin, Thomas		Barrels, gun, draw grinding	19	3
Delano, Calvin		Plough, hill side, reversing		1 3
Delano, Daniel S		Currier's knife, tempering	16	2
Delano, Howard		Plough, revolving coulter	10	
Delano, Howard		Wheel hubs	10	2
		ire proof chest	2	
		Chimneys and fire places	5	1
Delap and Eve		Frist mill	13	2
De Lacy, John D		law and grist mill	14	2
Dellet, James		Iulling rice, &c	i	•
Delliba, James		rucibles, making	2	
Demarest, David		Apples, grinding	13	9
Demasters, Foster		lax and hemp, &c., hatcheling	3	
		Steam engine	6	li
Deming George	v	Water wheel, horizontal	111	2
Deming Joseph R.		Constructing ships	7	
		Wind wheel, horizontal	ıi	1
		Tarness, horse collars	16	2
		Copper, acetate of	4	2
Demund Joseph and Stinson	9	Spirits from corn and cobs	4	1
Demuth, Jacob, Benjamin Bowman	, and	Smut machine	1	
		Smut, wheat rubber	i	
		Chrashing machine	i	
Deneale, James	F	Kiln for grain	5	1
Deneale, James	c	Ovens, perpetual	5	j
Deneale, James,	N	Mapping land instrument	8	i
Dennett, Daniel		Wind wheel, horizontal	11	2
De Niroth, Louis.	C	Composition floor, house	4	1
Dennis, James			3	1 4

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Dennis, Jonathan	Hats and bonnets		
Dennis, Jonathan, jr	Trees from canker worm	3	7
Dennis, Jonathan, jr., (assignee of Ken-	2.005 tront canker worm	1	3
dall Gibbs)	Loom temples, self-acting	3	8
Dennis, Jonathan, jr	Silk, reeling	3	8
Dennis, Jonathan, jr	Spinning and twisting silk	3	9
Dennis, J. I. W	Washing machine	17	31
Dennis, Robert	Steam engine, rotary	6	16
Delillis, Modert, accessors as a second	Steem notion aircular motion	6	16
Dennis and Alchardson	Mortiging machine	14	27
Dellilligulia Eliastuna a a a a a a a a a a a a a a a a a a	VV sahing machina	17	31
		11	23
Demison, James	Water wheel saw and eviet will	11	23
Denison, Janes R	Inning vate	16	309
Dennison, John N. and Elias Kirkpatrick	Railroad track, cleaning	9	19
Denniston, John T  Denniston, John T	Harness saddles	16	29
Dennison, Lester E.	Alama to machine	17	31'
Denison, Lester E	Corn shelling	8	18
		1	
Dennison, Lester E	Pressing machine	1	
	Smill mechine	12	24
Denny, Juliles e e e e e e e e e e e e e e e e e e	Constructing vegsels fleeting	7	2
Densinore, Rudolon	Kurnasa for hosting bathing toba		7(
Denson. william	Strow cutter and some shallow	5 1	12
		4	2
Derby, Joseph H	Combs. cutting	21	11 35
Derby, Joseph H	Corn sheller	~i	33
Deiny, Jusculi II	Siamning engravings on horn	18	32
			10
Derosne, Charles Louis, see J. F. Lapice	Sugar, making	4	11
Derosne, Charles Louis, see J. F. Lapice Des Combs, Cs. Edw. Jacott	Watches, duplex escapement	8	18
Desiron, Daniel, 20	Propelling wheel	7	17
De Sliver, Robert.	Rook hinding	18	32
Desmond, Daniel	Grates, sliding flute	5	13
Despraugh, Lewis M	Pen, flying	18	32
Destreham, N. N	Raising water	n	22
Detmold, Christian E Detmold, Christian E	Purnace, neating	2	4
connota, Christani Birriri i i i i i i i i i i i i i i i	in the seam, enecung compusuon		
Detmold, E. C. (assignee of W. Von Fa-	in flues, &c	6	15
ber du Faur.)	Furnace &c heating		
Detroisment, Louis D.	Chimneys stores and fire places	2	4
Detterich and Conger	Loom figured eloth	5	12
Detterrer, 1888c	hiles or ready hinders	3	8
Deutsch, Edward	Comonie and nigments, wroter proof	18 4	32
Devec, Darliauas,	Straw culling have due	i	10 2
Deverin and isabelle	Bath steam	20	34
Deville, F	Wigg	21	35
Devine, James.	Store cooking	5	14
Devian, F. S., J. Hancock & C. S. Wood	Saving oil in machinery	22	35
Devoue, John	Churn and weeking mechine	ī	
Dew, Daniuel	Compass, surveying, universal	8	18
Dewees, Jac.	Canala saving water in	9	19
Dewes, John C	Summing cotton begging	3	8
Dewey, Bohan	Washing and fulling machine	17	31
Dewey, David	Rake horse	1	2
Dewey, David	Shearing cloth	3	8
Dewey, David	Shearing cloth	3	8
Dewey, David	Shearing machine, vibrating.		8
Dewey, David	Church destroy mb = 1	4	10
	Straw cutting	1	
Jewey, Edenezar		. 1	2

PATENTERS.	- 130	VENTIONS OR DISCOVERIES.	CLASS.	PAGI
Dewey, Holdridge	Thras	hing machine, hanging beater	1	
Dewey, Jeremiah		t, spring	20	3
Dewey, Joel, jr		hing machine	ī	
Dewey, Joel, jr		nd hemp machine	3	
Dewey, Sherman		g rice	i	
De Witt, Richard V		s, steam	6	1
e Witt, Simeon.			18	3
	1	ing		ī
De Witt, Simeon.		ing apparatus	4	
o Wolf, Benjamin F		improved	5	1
exter, George B.		water proof, ailk	8	
exter, George B		heumatic	4	1
exter, George B.		ır, sublimating	4	1
exter, George M		ng buildings, apparatus	5	1:
exter, Henry		ors, apparatus	18	3
exter, Jer	Raisin	g water from wells	11	2
exter, John C	Stone,	dressing	15	2
Dexter, Samuel F		ng, wire	9	-
exter, Willoughby		ons	2	
exter and Graves.		ge, rope, and twine	3	•
bey, William B		for hernia	20	3
leyster, Joseph J.		28, &c	9	19
ezeau William.		ng spruce beer	4 1	10
Diamond, John.		ing	4	ī
libble, Maria P		rters, umbilical	20	3
bibble, Orange H		removing	9	19
bbble, O. H			13	2
ick, Jesse S	Three	cuttinghing, hulling, and shelling		- 7
	Posts	mig, numug, and snemng		
lick, John		and shoes	16	25
Dickerman, Hezekiah			1 1	
Dickerman, Hez.		cheese	12	24
ickerman, Lemuel		ng cloth and laying nap		8
ickerman and Parsons			1 1	_
lickey, David H.		extractor	20	34
nckey, Samuel		l _.	5	13
nekinson, David		s, scouring	17	31
nckinson, David B.	Safes	for preserving meat	17	31
ickinson, Eli.	···· Cock	for liquor	11	22
ickinson, George.		ng wicks	3	9
lickinson, John	·····  Cock	stop, block tin	11	22
Dickinson, John.		onds, setting	18	32
lickerson, Jonathan	····. Tide n	nills	11	22
ickerson, Jonathan	Marbl	e, sawing	15	28
lickinson, Samuel N	Printin	ng, facilitating	18	32
ickinson, Solomon		cooking	5	13
ickinson, Wm		, engine	3	8
lickinson, William		l hubs, cast iron	10	21
lickinson and Merriman		on rollers.	13	25
iehl, Samuel		wheel	ii	23
ligges, George P		etton seed	4	ĨĮ,
ilaway, Hiram			15	28
illingham, John		moulds, pressing	2	45
impfel, Frederick P.		door	2	
		ce, revolving fan wheel		100
Dimpfel, Frederick P		ce, consuming smoke, &c	5	126
impfel, George L.	Defloa	78	11	219
imm, John	Steam	ing and mashing apples	5	135
ingee, Robert		ich box	19	334
lingley and Savage		wheel, tide and current	11	235
insmoore, Abel.	Thras	hing and cleaning grain	1 1	. 27
insmoor, Alonzo R		s, riding		299
insmoor, Alonzo R		sheller		9
insmore, James.		darm	5	126
Dinwiddie, J. and W.		s, spring tree	16	299
Dircks, Henry	Whee	ls, railroads		215
highwayer I am	Furna	ce, combined	2	43

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Disbrow, Levi	Grates, kitchen	5	129
Disbrow, Levi	Boilers, steam, combined furnace	6	151
Disbrow, Levi	Boring for water	9	191
Disbrow, Levi	Boring for water	9	191
Disbrow, Levi	Boring for water, apparatus	11	219
Disbrow and Sullivan	Raising water		228
Ditmars, A. D	Hay, preserving	1	12
Ditson, Thomas	Hulling coffee berry	1	14
Divan, George	Lock, wagon	10	209
Dixey, John	Printing machine		326
Dixon, Edward H	Grates and stoves	5	130
Dixon, Jesse	Bellows	11	219
Dixon, Joseph	Composition bearings, machinery	4	102
Dixon, James, jr	Steam engine	6	156
Dixon, Peter	Saddles	16	299
Dixon, Peter	Saddles without trees.	16	300
Donne, John P., & William H. Denny	Coal sifters	.5	125
Dobbing, George W	Shot charge	19	336
Dobson, John	Gold, separating from soil	2	45
Dobson, William B	Striker, blacksmith's assistant	2	61
Docker, William	Roofing houses	9	200
Dodd, Daniel	Steam engine	6	156
Dodd, Daniel	Steam engine	6	156
Dodd, Robert J	Bougies		177
Dodd, Robert J	Cupping instruments	20	341
Dodge, David	Oil from flax seed	4	342
Dodge, D., and Ph. Burgess	Dock, floating dry	8	112 194
Dodge, J. Smith	Teeth, setting artificial		343
Dodge, James, jr	Bellows nozzle, preventing burning.	îĭ	219
Dodge, Jonathan	Teeth, setting artificial		343
Dodge, Jordan	Nails and brads		53
Dodge, Nehemiah	Propelling wheels, steamboat	7	176
Dodge, Samuel	Winnowing machine, fanning mill	i	35
Dodge, William M	Printing, art of	18	326
Dodson, Jeremiah	Corn sheller	1	8
Dodson, W. B	Truss, for hernia	20	344
Doe, Joseph Bolton	Soap frames	4	116
Doffer, George	Bee hives		3
Dofler, George	Plough, right and left	1	21
Doherty, George C	Boring rocks	9	191
Dole, Albert	Balance, platform		239
Dole, Albert	Balance, portable		239
Dole, Stephen	Splints for friction matches		359
Dole and Pickard	Boots, machine drawing		294
Dolhaner, John	Plough		18
Doll, William H	Earth, removing		195
Domett, George	Cutting leather at one operation	1	296
Dominis, John	Sails, measuring instrument	7	177
Donald, William B	Plough, hill side, hinged wing		20
Donaldson, Alexander	Bungs, cutting		266
Donaldson and Wheeler	Water wheel, horizontal		233
Donges, Henry	Tailors' measures	21	254
Donisthrope, George E Donlery, John S	Lazadromia miller for macricina	3	96
Duncry, John S	his way	7	171
Donn, John	Ship's way	7	171
Donnell, Lewis.			168
Donnell Samuel E	Corn sheller	i	17
Donnell, Samuel E	Winnowing machine fenning mill	i	35
Doolittle, Anthony	Digtilling maize	4	105
Deolittle, Hiram S	Rake, revolving ring tooth.	i	22
Doolittle Isaac	Charcoal manufacturing	5	124

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Doolittle, Isaac	Mangle	17	31:
Doolittle, Sylvester	Boats, canal and rivers	7	16
Doolittle, Sylvester	Raising canal boats and vessels	9	19
Dorman, Albert	Constructing boats and vessels	7	16
Dorman, Francis A	Boats, canal steam	7	160
Dorr, Russell	Shearing cloth	3	81
Dorr, Samuel G	Shearing cloth by wheel of knives	3	88
Dotterer, David H., & Thomas Jackson.		6	159
Dotterer, Henry	Bellows, furnace	11	219
Dotterer, Henry	Bellows, pump, elastic piston	11	219
Dotterer, Henry	Bellows, pump for forges	11	219
Doty, Zuri S	Charm.	1	
Doty, Zuri S.	Company of the base of the terms formed to	1	•
Dougherty, John			.~
Douglass, Archibald	railroad cars	7	169
Douglass, Archivald	Threshing machine	1	27
Douglass, Archibald O	Rocks cutting	10	20
Douglass, Archibaid O Douglas, Beriah	Solt organizing	18	32]
Douglas, Deriah	Store cooking	5	115 140
Douglas, Beriah	Stave parlor	5	
Douglass, Beriah	Propelling vessels' neddles, endless	"	146
Douglass, Denam	chain	7	175
Douglass, John	Fount liquor	1i	222
Douglass, John C.	Distilling apparatus.	4	105
Donglass, John C.	Evaporating vessels	Ā	108
Donelass, John C	Heat applying &c.	5	130
Douglass, John C.	Boilers, steam engine	6	152
Douglass, John C.	Boilers, steam safety	6	153
Douglass, John C.	Valve, safety piston	6	163
Douglass, Joshua.	Stove, cooking and fire place	5	143
Douglass, Roswell, (ass'nee of J. Coburn.)	Loom, weaver's shuttles	3	83
Douglass, Stephen P. W	Churn	1	7
Douglass, Stephen P. W	Power to drive machinery	13	259
Douglass, Stephen P. W. Douglass, William. Douglass, Wm. A.	Legs, apparatus to relieve	20	342
Douglass, William	Pump, forcing double	11	226
Douglass, Wm. A.	Propelling paddle wheels and boats	7	175
Douglass, William and Benjamin	· Pumps	11	225
Douglass and Johnson		1 1	30
Dow, J. E., W. M. Edwards, and S. Da-	1	1 _ 1	
V18	Sieve or riddle for coal	5	135
Dow, Lorenzo	Medicine	4	111
Dow, Phineas	Chaise bodies, Grecian	10	209
Dow, Phineas	Objection also in a	16	301
Dow, Samuel	Chimneys, cleaning	5	124
Dow and Treadwell	. Screw, manuacturing	2	58
Dowell, Williams	Steam anning steam houts	21	354
Dowell, William. Dowers, John, jr. Dowler, Francis.	Tools necession	6	161
Downer, Andrew O.	I atch and look knobs	19	335
Downer, Elisha		2 2	50
Downey, Robert.			92 298
Downing, Frederick.	LLoom rower weaving plain cloth	3	81
Downing, Joseph M	Kiln lime	15	289
Downing, Joseph M	Tanning hides.	16	302
Downing, Samuel	Bark, extracting.	4	99
Downing, Samuel	Bark, extracting, essence of	4	99
Downs, Almon			273
Downs, George W			78
Downs, John			357
Doxey, B. S			174
Drake, Eli P			293
Drake, Gideon	. Cards, grinding and facing	3	68

			-
PATERFEES.	inventions or discoveries.	CLASS.	PAGE.
Drake, Gideon	Window spring	2	63
Drake, Isaac	Shingles, blinds, and sawing	14	278
Drake, James	Bellows	11	219
Drake, John R	Saw mills	14	274
Draper, Francis	Knob, door, glass	2	132
Draper, Francis	Lamps, capsLamps, glass, caps of	5 5	132
Draper, George	Loom, power, rotary temples	3	81
Draper, George	Loom temples, rotary	3	82
Draper, Ira	Loom	3	80
Draper, Ira	Loom temple, rotary	3	82
Draper, Joshua	Saw, gumming	2	57
Draper, Samuel	Boring pumps	14	266
Draper, Simeon	Mail coaches	10	209 325
Draper, Simon W	Piano forte	18	116
Dresser, John	Veneers, cutting	14	282
Dreyer, Peter Henry	Railroad rails and fastening	9	198
Drinkhouse, Samuel	Hats, washing	3	78
Dripps, William	Railroad chairs	9	198
Dripps, William		11	232
Driscoll, Joshua C	Crackers, moulding	17	311
Drummond, James	Cutting grass.	1 2	11
Drummond, James	Fish net	22	358 70
Drummond, John	Candle moulds	4	100
Drummond, John	Steam engine, rotary	6	161
Drummond, John	Inclined planes, ascend'g & descend'g		197
Drummond, John	Hoisting machine	11	240
Drummond, John	Planing, tonguing, and grooving	14	273
Drummond, John	Brick, moulding		286
Drummond and Fuller	Furnace, smelting lead		44
Drury, Elijah Drury, William	Staging, swing		177
Du Bois, John, jr			206
Du Bois, John, jr			209
Dubosq, Henry	Suspender buckles	21	353
Dubosq, Henry	Child's whistle, design		322
Duchman, William	Saddles, spring		299
Du Common, Joseph	Filtering machine	11	222
Dudley, Ambrose	Salt, manufacturing	4	115
Dudley, Joseph	Scythes, manufacturing		59
Dudley and Brooks	Tanning leather		302
Duff, John	Kiln, brick		289
Duff, William	. Spark arresters		155
Duff, William	Spark catcher		155
Duff, William			211
Duff, William			153 163
Duff and Murphy	Mineral water, soda apparatus	6	111
Dugdale, Benjamin	Water wheel	11	230
Dugdale, Benjamin	. Wind wheel, propeller	. ii	236
Duke, James	Lamps	. 5	131
Dukehart, William Dulaney, William	Harness, riveting	. 16	297
Dulaney, William	. Smut and garlic machine	. 1	25
Dulheur, Henry	Saw mills	. 14	273
Duller, Joseph L	Glass moulds combination	15	290 288
Dummer Phineag C.	Glass moulds pressing	. 15	288
Dumont, William	Smut machine.	. 'ĭ	24
Dunaway, Johnson	. Tanning, &c., hides	. 16	302
Dumont, William	. Boots, crimping	. 16	293
-		]	ł

		<del></del>	<del></del>
PATENTEES.	INVENTIONS OR DISCOVERISS.	CLASS.	PAGE.
Dunbar and Powers	Corn abeller	1	9
Duncan, Charles	Sugar moulds, loaf	4	118
Duncan, Samuel	Napping cloth, vibrating	3	84
Duncan, William	Dying and printing woollen cloths	4	107
Duncan and Davidson	Napping cloth	3 17	84 314
Dungan, David	Washing machine	77	173
Dunham, David	Stairs for bridges or ferries	9	200
Dunham, David G	Washing machine	17	315
Dunham, Henry R	Wheels of locomotives	10	215
Dunham, Henry R	Cock stop, hydrant	11	220
Dunham, Isaac	Lamps, light-house burner	5	133
Dunkin, James B	Washing machine	17	316
Dunley, John	Stoves, double	5	114
Dunlap, Henry	Carriage bodies	10	207
Dunlap, Henry	Splinter bar and swingletrees	10	210
Dunlap, Jefferson	Candle moulds	4 1	108
Dunlop, Andrew	Distilling	4	104
Dunn, Arthur	Soap & oils, purifying	4	116 116
Dunn, Arthur	Magnesia, preparing	4	110
Dunn, William	Magnesia, preparing	4	110
Dunn, William J	Knife sharpener	2	47
Dunning, William	Brakes, carriage wheels	10	205
Dunscomb, Edward	Railroad	9	198
Duntze, Henry	Latch, door	2	48
Duplantier, Guy	Sugar, manufacturing	4	117
Duplat, Mark M	Privies, constructing	9	197
Duplessis, Francis	Sugar boilers	4	117
Dupont, E. J. D	Powder, granulating	19	336
Dupont, Jno. H. and Theodore Hyatt	Boot, gaiter, gum elastic gores	16	293
Dupree, Louis	Balance, steel yards	12	240
Dupree, Lewis	Winnowing, screen pendulum	90	35 34 <del>2</del>
Dupuy, Eugene	Nursing cattle	20 11	222
Dupuy, Joel M	Grammatical mirror	18	322
Durand, Cyrus	Ornamenting columns	18	324
Durand, Cyrus	Printing press, copperplate	18	327
Durand, J. P	Propelling boats	7	172
Durand, J. P	Propelling vessels	7	175
Durell, H.	Combs, metallic	21	350
Durfee, Charles, assignee of Edward S.		_ 1	
Townsend	Ropes, making	3	87
Durfee, Samuel	Clash folder and massures	9	194
Durgin, Silas C	Cloth folder and measurer	3	69
Durham & Pleasants	Straw cutting machine	2	26 50
Durkee, H., assignee of J. Chittenden	Water wheel	ıî	231
Durkee, Ziba	Axles, rail cars, strengthening	iô	205
Durrin, Edmund	Shearing machine, zigzag	8	88
Ducher, Josiah	Grates in stoves, raising and lowering	5	130
Dutcher, Josiah	Plough	1	18
Dutcher, Josiah	Plough, cast iron	1	19
Dutcher, Warren	Looms, improvement in	3	80
Dutton, John	Raising water, endless chain buckets.	11	228
Dutton, John	Fountain, design	11	222
Dutton, John		22	358
Dutton, John	lce, forming	22	358 232
Dutton, John, jr		5	147
Dutton, Joseph L		15	287
Duty, Andrew W	Tile, cutting clay for	15	290
Duty, E. and D. W	Brick machine	15	285
Duval, Alfred	Shot manufacturing	19	337

Ouvall, A. and W. J	Hulling rice and rubbing wheat		
Duvall, Benjamin		1	14
Duvall, Benjamin	Steel tempering for cutting glass	2	6
Duval, John B	Pills, anti-bilious	4	113
	Roofs, covering, with tin	9	200
Duvali, W. C	. Spinning, double speeder roving cot-		1
,	ton	3	89
Duvall, William J	Straw cutter	1	20
Duvall, Z., A. Calligan, and J. Miller	. Smut and garlic machine	1	2:
Duxbury & Nield	Loom, power	3	8.
Dwight, John	Piano forte, longitudinal bar	18	32
Dwight, John and S		15	29
Dwyer, Joseph T	Distilling apparatus	4	10:
Dwyer, Joseph T	Distilling apparatus	4	10
Dyar, Harrison G	Clocks	8	18
Dyer, Joseph C	Spinning speeder, twisting	3	99
Dyer, William B	Spinning wheel, cordage	3 5	13
Dyou, Michael B	Lamps, camphine	5	13
Dyott, Michael B	Glass, melting and fusing	15	28
Dyre & Richmond	Candles, moulds	4	10
Dyster, Joseph S	Propelling boats by wings	7	17
Dyzert, William		Ιi	li
Dysert, William	Cultivator	î	10
Ragleston, William R	Toeth, setting, &c	20	34
Eales, Thomas	Water wheel	11	23
Eames, Daniel W	Mail stages	10	20
Eames, James	Theodolite, or compass	8	18
Eames, Robert		16	29
Eames, Robert	Morrocco, &c., polishing & graining.	16	298
Earl, Jesse C Earle, Pliny	Pricking leather, for cards	20	344 298
Earle, Thomas	Roads, constructing	16 9	19
Earle, William	Shingle machine		27
Earle, Willard	Shingles, sawing	14	27
Early, Thomas	Bedstead, attaching curtains	17	30
Easby, William	Dams, coffer	9	19
Easby, William	. Dredging machine	9	19
Easterly, George	Barilla, manuf'g from tobacco stems.	4	9
Easterly, James	Grates, open	5	12
Eastlack, Edwin	Harness and carriage, safety	16	29
Rastlack and Miller	Gate, self acting waste	11	22
Eastman, Abiathar	Nails and spikes	2	5
Eastman, Cyrus	Rolling metallic tubes	3	5
Eastman, Joel	Water wheel, and applying water to.		239
Eastman, Joel	Water wheel, with floats, working up-		02
Eastman, Jonathan S	on hinges		23
Eastman, J. S.	Straw cutter		2
Eastman, Jonathan S	Cultivator	1	10
Eastman, Joel.		6	16
Eastman, Joel	Bellows, steam	11	21
Eastman, Joel S., assignee of George	· ·		i
Clezy	Plough	. 1	1
Eastman, Phineas	Water wheel resting	. 2	4.
Eastman, Robert	Fire arms discharging	11 19	23 33
Eastman, Robert	Water wheel	11	23
Eastman and Abbott	Screws, cutting & turning, iron & steel	2	5
Eastman and Jacuith	Clap boards, circular saw	14	26
Eastman and Rix	Wheels, for carriages	10	21
Easton, Peleg	Wells, sinking, &c	9	20
Easton, Theophilus	Cutting, farmer's scythe	ĭ	1

Patr <b>uțți</b> .	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Easton, Thomas S	Explosion, boilers, preventing	6	153
Easton, Thomas S	Explosion, boilers, preventing	6	153
Easton, Thomas S	Explosion, boilers, preventing	6	153
Eastwick, Andrew M	Valve, sliding	6	163
Eastwick, A. M	Wheels, driving, of locomotive engines,		
	increasing the adhesion	10	213
Eastwick, Andrew M	Steam engine, draught box for	6	158
Eaton, Ebenezer	Furnaces of stoves	5	129
Eaton, Isaac	Bedsteads	17	307
Eaton, Isaiah	Door springs	2	42
Eaton, James	Seal skins, manufacturing	4	116
Eaton, Joseph	Window sash spring	2	ୟେ
Eaton, Nathaniel	Railroad switches	9	199
Eaton, Rufus	Saw mills	14	274
Eaton, Samuel S	Ovens	5	134
Eaton, William	Distilling boiler, and rectifying still	4	105
Eaton, William	Thrashing machine	1	32
Eberts, John	Gig, fall top	10	209
Ebert and Dulty	Mineral water, soda fountain	4	111
Eby, Solomon M. & David N. Phelps	Steam engine, rotary	6	162
Echols, James H	Cordage, rope yarns, &c	3	70
Echols, Josephust	Steam engine and boilers	6	158 179
Echols, Josephus	Propelling compensating	7	173
Echols, Josephus Eckler, George, and J. X. Ball	Propelling canal boats	21	354
Eckler, James.		6	155
Ecksteen, John, and Hy. D. Moore, as-	Spark arresters		1.00
signees of Jacob Zeigler	Marble, polishing	15	289
Eckstein and McIlhenny	Composition for jostic	1 LA	103
Edes, Oliver and Andrew Holmes	Rivets, making	2	56
Edday, Charles C	Vinous fermentation	4	119
Eddy, G. W	Constructing boats, safety hulls	7	169
Eddy, George W.	Wheels, railroad cars	10	215
Eddy, Isaac	Paint mill and drug	13	259
Eddy, Isaac	Pulverizing drugs	4	114
Eddy, John L	Spinning cotton, &c	3	89
Eddy, Joshua L.	Bellows	11	219
Eddy, Melvin	Harness, collars, blocking & stretching	16	296
Eddy, W. T	Spinning spindle and flier	3	93
Edgar, H. and J. W	Thrashing machine	1	32
Edgar, H. and J. W	Thrashing machine, portable	1	33
Edgar, Isaac W.,	Steam engine, locomotive & railroad.	6	159
Edleman, George W	Calculating machine	8	183
Edmonston, Samuel S.	Press, oil	12	244
Edmonston, Samuel S	Chronometer	8	183
Edmonston, Samuel S.	Chimneys, sweeping	5	125
Edmonson, Thomas	Preserving butter and eggs	4	114
Edwards, Charles S	Potatoes, preserving	4	114
Edwards, David.	Lock, door, alarm	2	49
Edwards, David	Fire arms.	19	334
Edwards, David A	Springs, eliptical	10	211
Edwards, Isaac.	Plough, corn	1	26
Edwards, Jacob D. (design)	Canvass carpets	3	<b>69</b> 297
Edwards, John Edwards, John	Pump, suction	11	
Edwards, John.	Water wheel		230 239
Edwards, John.	Balance, scale beams	12 12	239
Edwards, John	Balance, scale beams	12	240
Edwards, John.	Balance, steel yards	17	312
Edwards, John	Printing, and forming colored figures	1.0	312
	on hard substances	18	326
Edmonds Tohn	Violin	18	329
Edwards, JohnEdwards, Lewis	Ink, supplying pens of ruling mechine		323

	<del></del>		
PATERISM.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Edwards, Luke M	Power, propelling machinery, called		260
Edwards, William	lever and dead weights	13 16	301
Edwards, William	Tanning sole leather	16	303
Edwards, William	Hides, softening, &c	16	298
Edwards, William	Roller, for preparing leather	16	298
Edwards, William	Tanning	16	301
Edwards, William	Wheels, boxes, anti-friction rollers	10	212 293
Eelis, John, jr Eelis, Samuel	Boots, lasting	16 16	294
Eells, Samuel, 2nd	Boots and shoes, water proof	16	295
Egbert, Benjamin	Pump, forcing	ii	226
Egbert, James D	Pump, forcing	11	226
Eggleston, Benjamin, jr	Distilling, boiling, method of, applica-	1	
EDulanton TIT .	ble to	.4	105
Egleston, Warren	Currier's knife, sharpening	16	296 20
Eichar, Peter Eichelberger, Frederick	Ploughs, double	1 13	251
Eisenbrandt, Christian H	Coffins	22	357
Eitelgeorge, Agustus	Explosion of boilers, preventing	6	153
Elder, John	Saw mill for dye woods	14	275
Elder, John	Saw mill for dye woods	14	275
Elder, William	Fermenting apple cider	1 4	108 10
Eldred, Allen	Cultivator	1 1	21
Kldred, Allen	Potatoes, digging Level and plumb		185
Eldridge, William M	Water wheel, buckets for		232
Eldridge, William M	Water wheel, reacting, double power.		234
Elford, James L	Telegraph	9	200
Elgar, John	Railroads		209
Eigar, John	Canals, transportation on, & railroads		193 175
Elgar, JohnElgar, John	Propelling steamboats, canals Steamboat for canals	7	177
Elgar, John	Railroad platform, revolving	1 :	198
Elgar, John	Car, railroad	1	206
Elgar, John	Wheels for railroad carriages	10	215
Elgar, John	Nails, manufacturing		53
Elgar, Joseph	Nails and brads, from rolled iron		54 53
Elgar, Joseph and JohnElgar, Nathan	Nails, manufacturing	1 -	52
Elgar, Nathan	Nails, manufacturing		53
Elgar, William L(not Elgac)	Water wheel	11	230
Elgin, George	Pistols, &c	19	336
Liason, Eleazer, jr	Press, cotton and hay, &c		243
Ellicott, Andrew and John McCrone	Furnace		115
Ellicott, Benjamin	Salt, manufacturing	5	145
Ellicott, David	Stoves, grain drying		55
Ellicott, George	Rolling bar iron edgeways	2	56
Ellicott, Joseph	Fish, catching	22	357
Ellicott, S., N. H. and W	Smut, wheat rubber	1	25
Ellicot, Thomas	Grist mill		252
Elliot, Abial.	Cannon balls, &c., moulds for	19	333
Elliot, Benjamin	Power, alternate motion for		259
Elliot, Catharine	Moccasins, manufacturing		353
Elliott, Frederick	Corn sheller	1	8
Elliot, George M	Bolting cloths, securing to the reel	13	250
Elliott, James	Exercising machine		342
Elliott, James	Bark, preparation, quercitron		99 249
Elliot, James	Bark mill		310
Eliot, James, jr Eliott, John	Elevator, for the sick		342
Ethot, Jonathan			244

PATENTERS.	INVENTIONS OR DISCOVERISE.	CLASS.	PACE.
Eliot, Moses	Winnowing machine, fanning mill	1	. 8
Efficit, Moses	Winnowing machine, tub mill	ì	3
Elliot, Moses	Music, arranging printed books	18	32
Elliott, Richard R	Thrashing machine	1	2
Effiott, Richard R	Washing machine	17	31
Elliott, Rufus	Scows, for sand	7	17
Elliott, Thomas, jr	Thrashing machine, &c	1	3
Eliot, William	Printing press, &c	18	32
Elliott, William H	Winding, spooling, cotton roving	3	9
Milis, Abner	Chairs, bottoms	17	31
Ellis, Charles	Springs, door	2	6
Ellis, Darwin	Hinges, butt	2	4
Ellis, Elias	Apples, gathering	1	١.
Ellis, Jonathan	Brads, cutting	2	4
Ellis, Joseph	Composition pencils	4	10
Ellis, Orin	Window sash, mortising	9	20
Ellis, Samuel	Writing plates, geometrical	8	18
Ellis, William	Washing potatoes and roots	1	3
Ellis, William	Malt, washing	4	11
Ellis, Zabina	Tallow, &c., cutting	4	111
Elisworth, Erastus W	Ram, water	11	22
Elisworth, Erastus W	Drawing instruments	18	32
Elisworth, Oliver	Flier and bobbin, twisting silk	3	7
Elmendorf, Reuben	Stoves	5	13
Elmer and Pierson	Propelling polygonal wheel and chain	_	
Til T 387	paddles	7	17
Elmore, Isaac W	Mill stones, dressing	13	25
Else, Richard	Drying grain	5	12
Elsegood, William H	Boots and shoes, soles	16	29
Eltonhead, Thomas	Spectacle joints	8	18
Ely, Elisha M	Gloves, wafers, leather for outing	21	35
Ely, George	Staves, jointing	14	25
Ely, James C	Saw mill, floating	14	27 19
Ely, Theodore	Wool, cleaning, &c	9	:
Ely, Theodore	Gin cotton, roller	3	9
Ely, Theodore	Wool, cleaning burrs	3	g
Ely, Theodore	Wool, cleaning burrs, from on skin	3	9
Emans, Richard	Shoemakers, clamp for	16	30
Embree, Davis	Distilling, by using the escape steam	10	, ,,
2	of a steam engine	4	10
Embree, James	Scythe, handle making, machine for	14	27
Embree, John L	Oil, purifying, sperm and whale	4	Ĩi
Emerson, John B	Steam engine	6	15
Emerson, Hawley	Wier, for catching fish	ğ	20
Emery, B. F	Skiving, removing wool	16	. 30
Emery, Laban	Tanning	16	30
Emery, Simeon	Distilling still, perpetual	4	10
Emes, James D	Thrashing machine	li	1
Emes, Robert	Cleansing leather	16	25
Emmitt, Pitner	Stoves, cooking	5	14
Emmitt, Pitner	Wheels, cutting tenons and shoulders.	10	21
Emmons, Calvin	Horse power	13	2
Emmons, Calvin	Thrashing machine	ĭ	3
Emmons, Calvin	Thrashing machine	1	3
Emmons, Uri	Grater, apples	17	3
Emmons, Uri	Music, teaching, &c	18	3
Emmons, Uri	Railroad, single	{ 9	19
Emmons, Uri	Cider mill and press	13	2
Emmons, Uri	Casks	14	20
Emmons, Uri	Planing, cylindrical	14	2
Emmons, Uri	Planing engine, circular,	14	27
Emmons, Uri	Planing wood, horizontal knife, &c.	14	2
	a 70	14	27

PATUMAÇÃO.	enventions or discoveries.	CI,488.	PAGE.
Emmons, William	Threshing machine	1	39
Emmons, William	Horse power	13	955
Emmons, William	Spikes, nails, clinching	2	80
Emmons and Upham	Power, propelling mills by belance le-	_	
	_ver	13	260
Engel, Martin	Beehives	1	3
Engel, Martin	Bedstead, constructing and cording	17	308
Engel, Martin	Sofa for invalida	17	313
Engle, Robert.	Smut machine	1	24
Engelbrecht, Theo. F. and Geo. F. Skiff.	Hooks, fishing, connecting	2	46
Engle, Wm. and M. G. Kinney	Smut machine	1	24
English, Robert	Canal lock, gate	9	193
Ennalls, Joseph	Saw mill and grist	14	275
Ennis, Joshua	Chimneys, ventiduct, topping	5	125
Enters and Zigler	Light, from stone coal gas	4	110
Ericason, John	Propelling vessels.	7	175
Ericason, John	Steam engine	6	157
Ericason, John	Steam to locomotives	6	162
Ericason, John	Propeller, screw	7	172
Ericsson, John	Propelling ships.	7	175
Ernst, Hermann C	Bedstead, fastening	17	306
Ervin, Alfred	Winnowing machine, &c	1	35
Eslin, John	Furnaces, &c	5	129
Espy, James P	Propelling paddle wheels, steamboats.	7	174
Espy, James P	Chimneys, caps for increasing draught		
77 4 37	in furnace	5	124
Espy & Young	Water, drawing from forebays and		
The Town Co.	discharging on wheels	11	229
Essex, Jeremiah	Cotton wadding	3	71
Essex, Joseph	Pegs, cutting and pointing	14	271
Estabrook, Warren	Churn	1	6
Esterly, George	Mowing and harvesting machine	1	15
Estes, Colemon C	Hemp break	3	79
Estes, Joel	Power, propelling mills by rolling and		
Patie Philip	balance wheel	13	260
Estes, Truman and Warren Dutcher	Casks, machine, &c	14	267
Etheridge, Samuel	Spinning cap, speeder for	.3	89
Etheridge, Heath & Glynn	Mill stones, picks	13	258
Etienne, Pierre	Plough, corn	,1	20
Etzler, John A	Steam engine, locomotive	111	235
Etzler, John A	Navigating and propelling by wind	6	159
Emily bomi Eliteration	and waves	7	171
Eunson, Robert G	Steam engine, freeing condenser	6	158
Evans, Britton M	Railroad, chairs of	ğ	198
Evans, C. and O	Plough, self-sharpening	i	21
Evans, Cadwallader	Explosion of boilers, preventing	6	152
Evans, Cadwallader	Boilers, float, to ascertain heights of	U	10.5
,	water	6	151
Evans, Cadwallader	Boilers, steam connecting and supply-		101
,	ing	6	151
Evans, Cadwallader	Boilers, steam, explosion preventing	ĕ	159
Evans, Cadwallader	Explosion, boilers, preventing	6	153
Evans, Charles	Press, standing.	12	944
Evans, David	Railroad, preventing turning	- <u>~</u>	198
Evans, David	Hats, napping with rabbit's fur	3	78
Evans, David	Press, fly wheel	12	243
Evans, David	Hoisting machine	12	240
Evans, David	Keyhole, closing and opening	2	47
Evans, David	Refrigerator	17	313
Evans, Edward	Tanning, without the use of lime or		
•	sweating hides	16	303
Evans, James	Blocks and snatch blocks	7	167
Evans, John		1i	230
		'	

PATENTERS.	EXPENTIONS OR DISCOVERIES.	C&ASS.	PAGE.
Evans, Jonathan	Pumpe	11	224
Evans, Joseph	Pumps	ii	225
Evans, Joseph	Pumps	ii	995
Evans, Oliver	Flour, &c., manufacturing	13	251
Evans, Oliver	Mill stones, burr for	13	258
Evans, Oliver	Screw mill	13	260
Evans, Oliver	Saw mills.	14	274
Evans, Oliver	Steam engine	6	156
Evans, Oliver	Stoves and grates	5	145
Evans, Sarah, executrix, and J. McFaden,	<b>G</b> -1		
executor of G. Evans	Plough	1	17
Evans, Thomas	Jack screw, goods in ships' holds	12	240
Evans, Wantsford	Wind mill	l ii l	235
Evans & Churchill	Spinning fliers, flax and hemp	3	90
Evans & Parsons	Dock, hydrostatic suspension	9	194
Evarts, Harry H	Meat cutter	17	313
Evarts, Russell	Seine, fishing	22	358
Evarts, Russell	Ships, preventing dragging anchors	7	177
Evarts, Russell	Steering steamboats, apparatus for	7	178
Evarts, Russell	Windlass	13	246
Eve, Joseph	Hulling cotton seed	ĩ	14
Eve, Joseph	Bands, metallic, communicating power	13	249
Eve, Joseph	Steam engine	6	157
Eve, Joseph	Steam engine	6	156
Evens, Daniel T	Teeth and gums, casts of	20	343
Everhart, John	Staves and shingles, shav'g & heading		281
Everhart, J., J. Pearson, J. Morford, and		**	
N. Everhart	Staves and shingles, heading of barrels	14	281
Everhart & Swimley	Mortar, mixing	15	290
Eveleth, John	Pump, forcing	iĭ	226
Eveleth, John	Excavator, mud machine	19	196
Eveleth, John	Excavator, mud machine	9	196
Evelett, John.	Steamboat	7	177
Everard, Francis A	Chimneys, sweeping	5	125
Everett, Benj. C., assignee of Benj. W.	, ,		
Stratton	Truss	20	344
Everett, Horace	Propelling vessels, &c	7	176
Everett, Joseph	Straw cutter	i	26
Eversole, Elijah H. and Cyrus	Steam engine	6	160
Eversole, Jacob B	Boilers, steam	6	151
Eversol, Jac.	Trip hammer	2	62
Ewing, James.	Hydrants	11	223
Ewing, James S	Mineral water apparatus	4	111
Ewing, John	Churn	i	5
Ewing, John.	Churn	ī	6
Ewing & Dickey	Pump, elevating, meal, grain	11	226
Ewing & Dickey	Elevating meal, pump for	13	251
Ewbank, Joseph, jr	Gin, cotton, feeder	3	75
Ewbank, Thomas	Lead, tinned, sheet	2	49
Ewbank, Thomas	Pipes, coating with tin	2	55
Ewbank, Thomas.	Pipes, for stills of tin plates, lead	2	55
Ewbank, Thomas	Explosion of boilers, preventing	6	153
Ewbank, Thomas	Valve, safety, hydrostatic	6	163
Ewbank, Thomas	Distilling still, pipes of tin plate, lead,	i	
•	<b>&amp;</b> C	4	106
Ewell, Thomas	Powder, manufacturing	19	336
	Bellows, portable	11	219
Ewing, Alexander	Cutting grain	1	11
Rvck. James Ten	9 9-min 10 10 10 10 10 10 10 10 10 10 10 10 10		
Ewing, Alexander	Lamp, volatile materials	5	133
Ryck, James Ten	Lamp, volatile materials		
Rvck. James Ten	Lamp, volatile materials	5 3 6	133 68 159

PATRIMINO.		CLASS.	PAGE.
Faber, G. and E	Hulling clover seed	1	13
Faber, George	Cards, wool	3	68
Fahnestock, A. K	Brick press	15	287
Fahnestock, Samuel	Mineral water apparatus	4	111
Fahnestock, William B	Tonsillarum, sector	20	343
Fahnestock and MonnFahrney, Jacob	Cutting sausage meat	17	312
Fahrney, Samuel	Wheels, felloes, sawing	17 10	31 <b>2</b> 214
Fahrney, Samuel	Cutting sausage meat	17	311
Fahrney, Samuel	Thrashing machine	i	36
Fahrney, Samuel	Cutting sausage meat, &c	17	312
Fahrney, Samuel	Sausage, stuffing	17	313
Fahrney, Samuel	Smut machine	1	25
Fahrney, Samuel	Garlic machine	1 1	19
Failing, John R	Boring earth	9	191
Failing, John R. Failing and Nellis	Boring earth	9	191
Fairbanks, Benjamin	Churn	14	276
Fairbanks, E. and T	Balance, steelyards	12	240
Fairbanks, E. and T.	Balance, weighing heavy bodies	îã	240
Fairbanks, E. and T.	Balance, weighing heavy bodies	12	240
Fairbanks, E. and T.	Balance, steelyards	12	240
Fairbanks, John	Ruling machine, cylindrical, paper	18	328
Fairbanks, John	Ruling machine, cylindrical	18	328
Fairbanks, John	Nails, eccentric roller machine	2	52
Fairbanks, Thaddeus	Cooking stove	5	139
Fairbanks, Thaddeus	Plough, cast iron.  Dust removing in grinding	1 2	19
Fairbanks, Thaddeus	Weighing heavy bodies	12	49 245
Fairbanks, Thaddeus	Flue furnaces, draught in	5	127
Fairchild, Asahel	Staves, dressing	14	280
Fairchild, F. A	Garments, tailor's measures, &c	21	352
Fairchild, Reuben	Paper making, agitator	3	86
Fairchild, R. and D.	Saddles, trees	16	300
Fairchild, R. and E	Saddles, trees, machine for making	16	300
Fairchild Starr at lease of P. Fairchild	Carriage spring		209
Fairchild, Starr, ass'nes of R. Fairchild Fairfield, Josiah	Shingles and scaleboard	16 14	29 <b>3</b> 279
Fairlamb, Jonas P	Spark catcher	16	155
Fairlamb, Jonas P	Car, railroad	10	206
Fairlamb, Jonas P	Canal locks, saving water in	9	193
Fairlamb, Jonas P	Railroad planes, revolving, &c	9	198
Fairlamb, Samuel	Printing press	18	327
Fairlamb, Samuel(not Fairland)	Inking form of types	18	323
Fairlamb, Samuel	Steam engine	.6	156
Fairlamb, Samuel	Press, standing	19	244
Fairlamb and BruceFairlamb and Dunot	Crackers, cutting	17	160 310
Fairlamb and Gilpin	Inking machine	is l	323
Fairlamb and Judson	Bumpers, applied to locomotives	īŏ	206
Fairman, Charles G	Elevating brick, stone and mortar	12	240
Fairman, Rlijah	Loom, power	3	81
Fairman, Legrand	Stove, cooking	5	135
Fairman, Simon	Carriages, land and steam		208
Fairman, Simon.	Steam engine, rotary, and boiler	6	161
Fairman, Simon	Lathe, chuck for	14	268
Fales, Charles.	Charcoal from peat	5	19 124
Falos, James	Cordage, rope, serving	3	70
Fales, James	Stoves	5	135
Fales, Squire M	Furnace, smelting	2	44
Fales and Brown	Chain, safety, for hauling down ships	8 .	169
Fall, John 8	Dropsy and epilepsy, cure for	4	107
Fanaher, Sylvanus	Window blind fasteners	.2	63

PATERSON.	EXVENTIONS OR BASCO-VARIANA.	CLASS.	PAGE.
Fanning, William	Cordage and rope	3	79
Fanshaw and Hawks	Boilers, steam, flat	6	152
Fanshaw, CharlesFaries, Samuel L	Stock, self adjusting	21 19	353 335
Faries, Samuel L	Gun, percussion, eight barrels	19	336
Faris, William	Raising water	11	227
Farlee, John	Plough	1	18
Farnham, Calvin HFarnam, Daniel H	Bleaching cloth, and cleaning	1	100
Farnham, D. L.	Pump, forcing, double	าร์	226
Farnham, Dudley L	Pumpe	11	225
Farnham, D. L	Steam engine, rotary	6	160
Farnham, Henry	Propelling boats	7	179 949
Farnham, Joel	Apples, grinding	13 9	201
Farnam, Joel	Water wheel, reacting	11	233
Farnham, Joel	Pump, forcing	11	226
Farnam, Joel	Pump	11	995
Farnam, Joel	Pump, force, double acting	11	996 997
Farnam, JoelFarnam, Joel	Pump, suction, force, double acting Pottery ware, manufacture	11 15	290
Farquhar, George	Scythe sneed	ı	29
Farr, Bela	Truss, (improvement on Hull's)	20	344
Farr, Bela	Truss, spiral spring	20	345
Farr, Joseph	Truss, spiral spring	30	345
Farra, Alonzo	Metallic reflectors	5 11	135 297
Farrar, John	Stove pipe, moulding and making	19	61
Farrand, Jehiel J	Water from wells, drawing	11	293
Farrand, Samuel E	Wheels, carriage, hub bands for	10	213
Farrell, Alexander D	Bedstead, sofa	17	399
Farrington, Elijah	Candles, composition for	17	100 310
Farrington, Thomas	Chairs, posts	14	277
Farrior, David and D. P. J. Murphy	Loom, weaving	3	83
Farris, Thomas	Pump, forcing, double	11	296
Fatman, Joseph	Sealing wax, igniting	4	116
Faulther, Peter	Vegetable clixir, to cure bronchitis	19	118 335
Fauntleroy, R. H	Lock, gun	202	357
Faur, W. Von Faber du	See Detmold.		-
Favor, Zebulon C	Bedstead, &c	17	309
Pay, Henry C.	Fire-arms and ordnance	19	334
Fay, Jerub AFay, Jerub A	Mortising timber	13 14	256 271
Fay, Josiah	Tenons, cutting by revolving cylinders		281
Feinour, Joseph and Joseph Feinour, jr	Lamps, safety, compass	5	133
Feinour, Joseph and Joseph Feinour, jr.	Lamps, signal	5	133
Feinour, Joseph, jr	Stoves, parlor	5.	146
Fellows, Stephen	Plough, bar share	1	94 19
Felton, Samson	Thrashing machine	î	29
Felt, David	Book binding	18	391
Fenn, Gaines	Clock, stop	11	220
Fennel, James	Salt, manufacturing	4	115 109
Fenton, Christopher W	Washing machine	4 17	317
Ferguson, Hiram	Water wheel	ii	231
Ferguson, J. C	Plough, wheel	1	21
Ferguson, John P	Carpet design	3	69
Ferguson, Robert and John Clark	Tamps	18 5	396 131
Femald Henry D			
Fernald, Henry B	Tide power	ıĭ	229

	<del></del>		
errall. William	Grate bars	5	18
erre, Horace		16	29
erre, Moses	Buttone	21	34
Ferren, Ebenezer		5	18
Ferren, Ebenezer		6	iê
Perrin, Otis		3	1 8
Perris, Caleb L	. Steam engine, arranging cylinders and		
lauria Pliiah	Monkle mulking for according	6	1
erris, Elijah		15	20
erris, Ira		11	2
erris, Peter		4	1
erris, Peter		.4	1
erris, William		10	2
essenden, Asa and Luke L. Knight		22	3.
essenden, Thomas G		5	1
essenden, Thomas G		5	1
essenden, Timothy	Axletrees, &c., setting	10	2
essenden, William G	Bark, extract of	4	i
ettrow, A	Plaster mill	13	2
eurow, A	. Winnowing grain	1	1 :
ew, William		4	1
ickardt, F. A		5	1
ickardt, F. A	. Stoven	5	li
ickardt, F. A.		5	ī
ickett, Scott		11	2
ield, Aaron		14	2
ield, Henry		3	l ĩ
ield, William		2	•
	Hammer, swedge, spring	3	1
'ield, William'ield, William		2	
Field, William	. Rolling irregular figures, to pattern.	~	
	Pawtucket, R. I., August 7, 1844,	_	ļ
	omitted	2	١ ـ
Fife, William		18	3
inch, Joseph		19	3
inch, S. F. and James Wheeler		14	2
ink, Julius		5	1
ink, Julius		5	1
inlay, Hugh	Car, railroad	10	2
inlay, James	Bridges	9	1
inlay, James, assignee of Whitelaw and	d!	l	
Stirrat	. Water wheel	11	2
mlav. John	. Spark catcher	6	1
'inlay, John	. Propelling boats, canal, &c	7	1 3
inlay, John	. Wheels, iron, for railroad carriages	10	1
inlay and B. & S. E. Morse. should be	6 Paining water and farsing	1,	9
Morse, see letter M	Raising water and forcing	11	1 3
inn, William			1 7
inney, Bethel		17	3
inney, Erastus	Lock, door	2	١.
inney, Joseph B	. Chairs, easy	17	
innigan, James	Varnish and japanning	18	:
irst, Michael	. Thrashing machine	1 1	4
	. Spinning, speeder, double, No. 1	3	1
ish, Jonathan	. Spinning, speeder, double, No. 2	3	1
ish, Jonathan	. Spinning, speeder, double, No. 3		
ish, Jonathan			- 1
Fish, Jonathan	. Spinning, speeder, double, No. 5	3	1
ish. Jonathan	. Spinning, speeder, double, combination	3	ı
Fish, Preserved	Truss, for hanging ships' yards	7	
Fish, Randal	. Spark arresters	5	1
Fish Randal	Streets and roads, grading	9	1 :
2. 1 . 2 1 .	. Hats, leather, for making	16	
rish, Kandal	. I Lace, reactive, for management		

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patrn <b>tbe</b> s.	inventions or discoveries.	CLARS.	PAGE.
Sisher, Abraham	Fire place, with flat funnel	5	127
Fisher, Charles F	Distilling	4	104
Fisher, Charles F	Edging tin plate, &c	2	42
Fisher, Charles F	Distilling, still for	4	106
Fisher, H. C	Saddles, spring	16	299
Fisher, Henry F	Distilling apparatus		105
Fisher, Isaac, jr	Sand paper		87
Fisher, Isaac, jr	Sand paper		87
Fisher, Isaac, jr			87
Sisher, Isaac, jr	Sand paper, softening, &c		87
Fisher, Jac		10	209
Fisher, N. A	Boots and shoes, pegging	16	295
De Lisle)	Blocks, wood, paving		266
Fisher, Schuyler	. Hats, plank, kettle for	3	78
Fisher & Chamberlain	Fire arms		334
Fisher & Sparry	. Thrashing machine		30
Fisher & Talbot	Dough, kneading		312
Fisk, Daniel	Hydraulic balance lever		223
Fisk, Ezra	Brick moulding		286
Fisk, Ezra Fisk, Ezra	Washing machine		316
Fisk, Ezra	Seeding sowing machine		23
Fisk, Jeremiah Fisk, Joseph E	Thrashing machine		31
Fisk, Levi	. Stoves, air tight, or Arnott stoves Saw-mill saw		137 276
Fisk, N. W. (assignee of A. D. Fisk			141
Fisk and Green	Wheel hubs and rotary bearings, an-		141
	ti-friction boxes		214
Fisk and Hinkley	Brick and tile		287
Fissore, Louis			325
Fitch, Edward G	. Carriages, safety, double axletree		209
Fitch, Edward G	. Lever, gained power		241
Fitch, Edward G	. Trunk, travelling, and life preserver		363
Fitch, John	. Propelling boats by steam	8	174
Fitch, Samuel	. Winnowing machine, fanning mill	1 1	<b>3</b> 5
Fitch, Samuel	. Winnowing machine, fanning mill		35
Fitzgerald, Daniel	Fire proof safe		43
Fitzgerald, Daniel	. Cocoa nut cutter		357
Fitzgerald, Daniel	. Horse power		255
Fitzgerald, Daniel	Horse power.		255
Fitzgerald, Daniel	Boats, submarine gun		168
Fitzgerald, Daniel	Propelling vessels		175 <b>43</b>
Fitzgerald, Daniel, Jesse, and Elisha	Braiding machine, manilla		67
Fitzgerald, D. and J	Grist mill, conical		254
Fitzgerald, Elisha	Braid, tuscan, and weaving		67
Fitzgerald, J. and D	. Thrashing grain	i	28
Fitzgerald, Jesse	. Thrashing machine	: i	32
Fitzgerald, Jesse	. Coffee mill		250
Fitzgerald, Jesse	. Horse power, portable		257
Fitzgerald, Jesse	. Mill, portable		257
Fitzgerald, Richard	. Shears, tailor's	. 21	353
Fitzgibbon, John	. Trunks, travelling	. 16	303
Fitz, Gideon	. Press, cotton	. 12	242
Fitzpatrick, Edward P	. Winnowing machine	1	34
Fitzpatrick, Edward P	. Smut machine	. 1	24
Fitzpatrick, Edward P	. Propelling boats, screw for		173
Fitzpatrick, Edward P	Boats, to be used under water		168
Fitzsimmons, Patrick	Oils, process of cleansing		112
Flagg, David	Brick machine	15	285
Flore D:3 :		. 14	W777
Flagg, David, jr	Sawing Doards	1 13 1	277
Flagg, David, jr. Flagg, David, jr. Flagg, David, jr.	Shingles and staves, heading	14	280 286

Patentes.	INVENTIONS OR DISCOVERING.	CLASS.	PAPE.
Flagg, David, jr	Horse power, portable		266
Flagg, David, jr(not Plagg)	Thrashing machine		30
Flagg, David, jr	Thrashing machine		30
Flagg, David, jr	Grater, apple, &c	17	313 33
Flagg, J. and I. Flagg, jr	Lamps, reflector, elastic		133
Flagg and Parker	Brick, stock, tile, &c		287
Flagg and Peck	Press, cotton and tobacco		243
Flagg and Peck	Press, hay, cotton	12	244
Flagg and Wright	Winding spools and bobbins	3	95
Flanders Thomas J	Shingles and clapboards, sawing	1 14	31 278
Flanders and Rathburn	Winnowing wheat	1	36
Flanagan, Andrew	Marine railway	9	197
Fleming, George	Raising water by steam	. 11	228
Fleming Lorenzo D	Abdominal supporters	20	341
Flenner, Lewis	Car, railroad, cylindrical	10	207
Fletcher, Charles	Cement, chemical, water proof	21	352 · 101
Fletcher, Hannibal	Yarn, sizing by steam	3	96
Fletcher, J. A	Press, cheese	12	242
Fletcher, Jabez B	Flumes for water wheels	11	222
Fletcher, John C	Lamps, &c	5	131
Fletcher, John C	Lamps, reflecting	5	133
Fletcher, MatthewFletcher, Moore R	Steam engine, rotary	20 20	161 344
Flickinger and Krim	Smut machine	ĩ	25
Flinchbaugh, Henry	Spindle and bush, self-tightening	13	260
Fling, Lester	Nails, manufacturing	2	52
Flint, Daniel	Plugs, cutting for ships by a centre-	۱ _	
Flint Edmand	point spring bit	7	171
Flint, EdwardFlint, Richard	Skins, extracting hair from	16 2	300 42
Flint, Thomas	Loom, power, weaving carpets	3	81
Flint and Mills	Gypsum, applied to cisterns	15	289
Flocton, Webster	Metallic solution for preserving tim-		
TTI .1. Y 1 AY 1	ber	4	111
Flook, Jacob, of John	Hulling clover seed	1 7	13
Flower, WilliamFloyd, John	Buoy, life	9	168 193
Fobes, Alpheus, and Fitch W. Taylor,	boom, nousing ary		150
	Rivets, making	2	56
Fobes, Charles P	Crackers, cutting	17	311
Fobes, Isaac		14	281
Folory James C		2	56
Foley, James GFolger, Aaron	Distilling still, steam	4 5	106
Folger, Benjamin		4	133 112
Folger, Benjamin	Pumps		224
Folger, Label	Dough breaking	17	312
Folger, William H	Gold & silver separating from earth	2	45
Folger, William H		2	45
Follet Francis	Window sash, hanging	9 12	201 245
Follet, Francis	Hulling cotton seed	12	245
Folsom, John	Boot, machine for blacking & cleaning	16	293
Folsom, Sewall.	Skirts, ladies		353
Fontane Moreau, Peter Armand le Com-			
_ te de	Electric diaphragm	.8	184
Foot, Aaron			229
Foote, Alvan	Washing machine	17	273 316
Foote, Elisha, jr	Stove, draught in	5	146
Foot, Henry A	Cooking stove	ี้ จั	133

PATENTESS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Feet, Nison	. Combs, cutting	21	350
Porbes, Charles	Paper making		86
Forbes, Horace D	. Constructing steamboats, secure, in		
	case of collision	7	169
Forbes, Horace D	. Steamboats, bail wheel	7	177
Forbes, Samuel	. Boilers, steam, & furnace for steam en-		
Paras Clark	gine	6	155
Force, Clark	Wheels, conforming carriage to Paper hangings, printing	10	213 85
Force and Davis(see F. Davis)		3	^
	railroad cars	10	205
Ford, Christopher	. Seeding, cotton planter	1	25
Ford, Eb	. Torpedo	19	337
Ford, Eb.	. Mills, floating, &c	22	358
Ford and White	. Hats, paper	3	78
Fordes, Nathan		19	333
Forker, Samuel	Lock, percussion	19	335
Forrest, John M		1	23
Forrester, Lot	Winnowing grain	3	80
Forrester, Lot		9	195
Forrist, Martin C		13	254
Forse, Charles		îĭ	234
Fors, John M	. Razor strap	21	353
Forsyth, Andrew	. Flax and hemp, breaking	3	72
Forsyth, William T	. Sliding doors	9	194
Fortune, Thomas L		3	79
Forward, William W		13	253
Forwood, William W	. Wheels, felloes, sawing and boring	10	214
_ 1844, omitted)	Making hat bodies	3	
Foss, Cotton	. Bark mill	13	249
Foss, Cotton	. Pump, spiral	11	22
Foss, Cotton	- Churn	1	
Foss, Cotton		11	233
Foss, Cotton		6 2	150 43
Fossard, Felix	Furnace, blast, steam, application Dying with alkaline prussiates	4	107
Fossard, Felix	. Dying with alkaline prussiates	4	107
Fossard, Felix	. Dying with alkaline prussiates	4	107
Fossard, Felix		4	107
Foster, Aaron	. Napper, teasling cloth	3	84
Foster, Aaron	. Dye woods, cutting, &c	14	26
Foster, Aaron	. Napper, teasing cloth	3	84
Foster, Abner	Mortising machine	14	270
Foster, Ambrose	. Rake, hay, hand	1	21
and J. O. Walker	Harness, carriage, and saddlery	16	290
Foster, Charles		2	4
Foster, Clinton		ĩ	1
Foster, Clinton and Levi Jones		1	35
Foster, Ezekiel B		18	326
Foster, Leonard		.2	4
Foster, Leonard	Bedsteads	17	30
Foster, Leonard		17 2	309
Foster, Leonard		2	50
	Teeth setting.		34
Foster, Nathaniel	Spinning hemp and flax		9
	Felt, paper maker's, washing, &c	3	7
	Rage, cleaning and dusting	3	8
Foster, Samuel W	. Smut machine	1	2
	. Shingles, sawing		27
Loston Willard	. Washing machine	17	31

PATEMENS. INVENTIONS OR DISCO	VERSES. CLASS	PAGE.
Foster, Willard Stumps, extracting		200
Foster, William	14	272
Foster, WilliamShingles, cutting		278
Foster, William Veneers, cutting		282
Foster, W., jr., and L. Foster Lamps, double reflecting		132
Foster and Avery Steam engine, reacting	6	160
Foster and Hugus Motion, rectilinear into re		259
Foster and Stondenburg Garments, woollen		352
Foster and Van Vleck Cistern, resevoirs, &c., for the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of		220
Fowler, B., jr., (ass'nee of James Jorey). Carriage whippletree		209
Fowler, Charles Bridges		191
Fowler, Charles Air heater, cylindrical		124
Fowler, De Grasse Buttons, manufacturing.		349
Fowler, De Grasse Buttons, manufacturing.		349
Fowler, De Grasse Pins, arranging and stick		55
Fowler, De Grasse	14	268
Fowler, John Bedstead fastening		308
Fowler, John		101
Fowler, John Barrels, gun, &c	19	333
Fowler, William		91
Fowler, William M	14	268
Fowler and Germond Spinning, roping, &c., fr		92
Fowkes, Samuel		251
Fowkes, Samuel		254
Fougeray, George J Stoves, stone coal	5	146
Fountain, C. J., J. F. Adams, and G. F.		
Hillyer Bedstead		308
Fountain, D. and M Saw mills		274
Fountaine, Garrett		169
Fourestier, Eli		1113
Fouse, Henry D. and Jacob McK Stove, radiating		140
Fox, David Brick, moulding		286
Fox, Gardon Furnaces, heating building		129
Fox, Jesse	water in 6	153
Fox, Jesse Boilers, steam, supplying	with water. 6	153
Fox, Joel, jr		65
Fox, Joseph S		223
Fox and Borland		30
Fox, Selah W. and A. Ferry Scythes, fastening the the	ole 1	1 1
Fraley & Kirkpatrick Mineral water, soda foun	tain 4.	111
Francis, Aaron and Jonathan Carlile Beehive		3
Francis, John B Wheel hubs, cutting an		01
end to let in boxes		214
Francis, Joseph		168
		168
Francis, Joseph Boats and vessels, sheet	7	168
Francis, Joseph		166
Francis, Joseph	a acang	179
	7	171
de Liancourt Life preservers Francis, Manuel Pump for ships, mode of	working 11	22
Francis, Wm	11	22
	turing electic	~~
Francis, Wm	16	294
Francis, William and Wm. Johnson Marking packages		323
Franck, John		288
Franklin & Windsor		96
Frary, Justus	ning mill 1	33
Frazier, Daniel		194
Fraser, Elias Stumps, extracting		200
Frazer, John Seals, notarial		24:
Frazer, Kasson		29
Frazer, Kasson	16	295
	16	297

PATENTEES.	inventions or discoverise.	CLASS.	PAGI
Prazer, Robert	Boats, canal, in sections	7	34
razer, Simon	Press, tobacco	12	وَ ا
razer, Wm. L	Churn	î	-
razier, William	Drums for heating apartments	5	1
rederick, Robert and Granville A. Trump	Dead hadies preserving	22	3
			= :
redley, Fred	Cider mill, portable	13	2
'redley, Fred	Spindle, reducing friction		3
redly, Frederick	Iron, &c., washing ores	2	
redly, Frederick	Tonguing, grooving, &c., boards	14	2
reeborn, Gideon	Hoe, weeding, and others	1	_ 1
reeborn, Gideon	Steam engine, tubes attaching to	6	1
reed, Abraham	Saddles, spring		2
reeman, Erastus V	Gin making	4 1	10
reeland, John	Oyster platform	22	3
reeman, John	Washing machine	17	3
reeman, Nathan	Carding machine, wool	3	
reeman, Peter	Friction, lessening in canal boats	7	11
reeman, Philip	Pressing, hoisting and lowering	12	2
reeman, Silas, jr	Apples, grinding, rotary cylinder, &c.	13	2
reeman, S. H	Regulating speed wheel for grist mills.	13	9
reeman, Timothy	Washing machine	17	3
releigh, Ferris	Mill stones, preventing heating	13	25
rench, Arasmus	Knitting stockings	3	7
rench, Daniel	Buttons, turning	21	34
rench, Daniel		3	8
	Oakum, picking	2	
rench, Daniel	Nails, wrought	6	. 5
rench, Daniel	Steam engine, boats, mills		15
rench, Daniel	Nails, cutting	2	5
rench, David	Shingles, splitting and shaving	14	27
rench, Daniel	Brick and tile	15	28
rench, Ira, (ass'ee of Maynard French,)		5	14
rench, Josiahrench, John M., assignee of Calvin Ful-		17	30
ton rench, John M., assignee of Calvin Ful-	Stove, cooking, design	5	145
ton	Stove, plate, design	5	146
rench, Lewis	Carding wool	3	69
rench, Maynard	Stoves, rotary caps, &c	5	146
rench, Raymond	Auger	14	266
rench, Raymond	Auger, pump, and spur bits	14	265
rench, Richard	Hulling rice, cleaning	1	14
rench, Richard	Spark arresters	6	155
rench & Bliss	Propelling boats, horse power	7	173
rench & Hawkins	Cutting grain	i	ii
rew, Samuel	Telegraphs	8	186
reymoyer, George	Smut machine	i	24
reymoyer, George	Alarm bell.	8	183
	1	7	170
reytag, Michael	lice braker		
reytag, Mrick, Albert Dominiquenot Dominique		11	222
F. Albert	Soap, improvement in	4	116
rink, Andrew M	Constructing ship's ceiling	7	169
rink, Harvey	Elixir, restorative	4	108
rink, Harvey	Gate flume	11	222
riese, Philip C	Boilers, preventing explosions	6	152
rieze, Simon	Truck, double cylinder, for raising		
	stone	10	212
risbie, Jeremy	Grist mill	13	252
robisher, William	Potash	4	114
rost, Abraham		3	85
rost, Abraham		17	313
		6	160
rost, Jamesrost, Jasonrothingham & Harris	Noile baseding		52
	' 11GHO, HEGUINE	~	74

PATENTEES.	inventions or discoveries.	CLASS.	PAGE.
Fry, Henry	Sugar, manufacturing	4	117
Fry, J. P	Flax and hemp, breaking	3	74
	curved edges	3	88
Fry, SamuelFudder, Jonathan	Press, cotton	12 14	243 267
Fulk, David A. and L. B. McLain Fulkerson, Jacob D	Fanning mill	1	11
Fuller, Albert	Wheels, car, constructing	10	213
Fuller, Elisha		3 7	89 172
Fuller, Francis	Candles	4	100
Fuller, George Fuller, J	Corn sheller	1	25
Fuller, Martin	Shaving leather and splitting	16	300
Fuller, Orlando A	Propelling boats, horse power	7	212
Fuller, Salmon	Shingles, sawing	14	279 309
Fuller, Seth	Planing machine	14	279
Fuller, William C Fulsom & Hayden	Carriages, railway	10 17	200 31
Fulton, Calvin	Stoves, cooking	5	14
Fulton, Gardiner	Powder, granulating	19	33
Fulton, James	.! Escapement for clocks	. 8	18
Fulton, Robert	Cordage	6 3	15
Furbish, Webber Ferbish	.' Horse power, endless chain	13	25
Furbish, Webber	. Thrashing machine	1	.3
Furbish, Webber	Washing machine	17	31 25
Furbish, Wm	. Grist mill, hulling cotton seed, &c	13	25
Fyler, Orzamus R	Escapement for clocks	8	18
Gage, David, assignee of P. Page	Stove, cooking	. 5	13
Gail, Titus D	Cutting grass		1
Gaillard, PeterGalbraith, JohnGailbraith, JohnGailbraith, Joshua	Horse mill, lever	. 13	25
Gaines, Richard	. Locks, balance, pendulum	. 2	30
Gale, Dan	. Uterine injector	20	34
Gale, Isaiah	. Boot shank, elastic	. 16	29
Gale, Luther	Bark mill	. 13	24
Gale, Luther	. Spoons, manufacturing	. 2	6
Gales, William			1 2
Gallagher, Patrick	Plough, clevis	. 1	1 1
Gallatin, Jeremiah	. Plough	. 1	10
Gallaway, John Gallop, Isaac	Press, tobacco; and iron case	. 12	24
Gallup, Lewis F	Lamps, argand to common	5	13
Gallup, WilliamGallup, William	Stove, cooking	5 11	14
Gallup, William. Gallup, William. Galvin, Judson B. Galvin, John(not Calvin).	Stoves, coal or wood	. 5	13
Gamble, James and J. S. Hill	windlass and capstan	12	24
Gambell, Squire	Thrashing machine	.] i	1 1

PATENTRES.	INVENTIONS OR DISCOVERED.	CLASS.	PAGE.
Gambell, Squire	Thrashing machine	1	31
Gamble, William	Distilling apparatus, &c	4	104
Gambel, William	Bedsteads	17	307
Gamble, William	Umbrella, manufacturing		354
Gammon, Edmund	Brads, cutting and manufacturing iron plates	2	40
Gandois and Swales	Roofs, covering with tin	9	199
Gann, John M	Glass bottles, &c	15	288
Ganahl, Carl, ass'r to Francis Ganahl	Loom for silk ribbons		82
Gans, Jacob	Hulling clover seed	Ĭ	13
Garber, Michael	Nails, manufacturing	2	53
Garber, Michael	Nails, manufacturing	24	53 104
Garber, Michael, sen	DistillingLime, process of burning	15	289
Gardiner, Bela	Hammer, pecking stone, &c	15	289
Gardiner, James P	Sun dials	8	186
Gardiner, John	Dock, dry	9	193
Gardiner, John	Roads, roller & wheel, & carriages for	9	199
Gardiner, John S	Corn sheller	1	8
Gardiner, Morris J	Lathe, turning	14	269
	Glasses, luminous, for orreries, &c	15	288
Gardiner, P. G	Hemp breaker	3 7	79 174
	Propelling paddle wheels Press, cotton	12	243
	Press, cotton, hay	12	243
	Carriage, railroad, turning curves	ĩõ	208
	Press, cotton and other	12	243
Gardner, Smith	White lead, manufacturing	4	119
	Horse power, gearing for	13	256
	Horse power, portable	13	256
Gardner, James	Water wheel	11	231
	Leather rollers	16	298
	Lead, white, manufacturing	3	110 7 <b>6</b>
	Cock, metallic screw	11	220
Garfield, Lyman	Composition, water proof, for roofs	4	103
	Mowing scythes, fastening nibs	1	16
	Steam engine valve, throatle	6	162
	Gas, purifying	4	108
	Cultivator	1 1	10
	Gas, combustible	4	108
	Cooking stove	5 17	139 307
Garrett, Samuel	Water wheel	îi	231
	Emory, manufacturing	2	42
	Rigging vessels	7	176
Garretson, Isaac	Water, steam, and wind power	11	229
	Nails, cutting and heading	2	59
	Water wheel	11	231
	Sugar candy	4	117
Garsed, Richard Fabruar	Loom, cam, improvement in	3 11	80 235
Garver, Isaac and Samuel Fahrney Gassner, David	Windmill	5	142
Gaston, Charles	Case, metallic, for kettles, &c	2	41
Gates, A. B.	Washing machine	17	316
Gates, Benjamin	Steam power and boiler	6	162
Gates, Charles	Mortising machine	14	270
	Cutting apples, &c	17	311
	Bungs, cutting	14	267
	Engine, fire, pump for	11	291 315
Gates, James M	Washing machine	• •	313
Cates, John W	for preparing	3	68

	inarniions or discoarsies.	CLASS.	PAGE.
Gates, William	Japan, applied to leather	`4	109
Gates and Maxwell	Water wheel, tide	1i	234
Gatling, Gordon	Cotton thinner	ī	10
Gatling, Jordon	Seeding, cotton planter	ī	22
Gatling, Richard J	Seeding, seed planters	ī	23
Gaultry, Paul	Winnowing flax seed	1	34
Gaunt, Adin	Press, cheese	12	242
Gaunt, Adin, ass'nee of Ira Smith	Bedstead fastening	17	308
Gaunt, Samuel K	Corn crusher	13	251
Gavit, William G	Loom, power	3	81
Gay, Charles S	Latch, mortise	2	48
Gay, David	Pumps for ships	11	227
Gay, Gamaliel	Silk twisting	3	88
Gay, Gamaliel	Hurdle for rearing silk worms	22	358
Gay, Gamaliel		3	81
Gay, Gamaliel	Silk, unwinding	3	88
Gay, Ira	Mortising and tenoning, sash, doors		~~
C I	and blinds	14	271
Gay, Ira	Planing machine	14	272
Gay, Ira	Planing window sash	14	273
Gay, Ira	Balance, platform	12	239
Gay, Ira and A	Spinning mule, self operating	3	91
Gay, Lowman	Bridges	9	192 42
	Fire-proof chest, iron		27
Gaylord, Charles S	Straw cutter Bedsteads, fastening	1 2	40
Gearheart, John	Thrashing grain, &c	î	28
Geauly, Lewis	Distilling, still for	4	106
Gebhard, John G	Oil, extracting from palma christi	4	112
Gebhart, George	Beehives	i	3
Gedney, Robert	Combs, manufacturing, &c	2 <b>i</b>	350
Gedney, Robert	Coaches, barouches	10	209
Gedney, Thomas R	Raising vessels	7	176
Gee, Wm	Corn sheller	1	9
Geer, John 0	Washing machine	17	317
Geer, John S	Washing machine	17	317
Geer, Uzzael	Wind wheel	11	235
Gehbe, Ernst	Files, cutting	2	42
Geib, George	Music, teaching	18	323
Geib, John	Piano forte	18	325
Geiger Paul	Plaister Paris, breaking	15	290
Geisendorff, J. C., G. W., and E. C	Flax and hemp, cleaning & breaking.	3	74
Geisendorff, J. C., G. W., and E. C Geissenhainer, F. W Geissenhainer, F. W	Iron and steel, by anthracite coal	2	47
Coincenhainer, F. W.	Nails, cutting	2	51
Geissenhainer, F. W	Boats for rapids	7	168
Genrig, Jacob H	Lancet, spring	20 7	342 170
Genet, E. C		ıi	223
Genet, E. C	Hydrostatic, erostatic, machinery	3	77
Gentry, Joseph C	Hats, manufacturing  Horse power, portable or animal	13	256
Gentry, Joseph C	Mill, metallic	13	257
Gentry, Joseph C	Mill spindles	13	257
Gentry, Joseph C	Grist mill	13	253
Gentry, Joseph C	Thrashing machine	1	30
Genung, Ira	Cutting leather, punching, &c	16	296
Geoghegan and Allen	Tobacco, manufacturing	22	359
George, William S	Shingles, dressing, &c	14	279
Gerard, Daniel	Salt, manufacturing	4	115
Gerhard and Vanneman		16	294
Germain, Lewis J	Carriage, railroad	10	208
Germar, William	Tanning	16	301
Gerrish, Ansel	Fireplace and chimney, funneled	5	127
Gerrish, Daniel	Saw mills	14	274
		7	170

PATEMTRES.	.inventions or disco <b>grams</b> .	CLASS.	PAGE.
Gerrish, Margaret	Asclepias, Syriaca	3	67
Gerrish, William	Wheels, spokes, cutting tenons in	10	215
Gerrish, William	Grist mill, for cutting	13	254
Gerrish, William	Boots, crimping legs	16	293
Gether, John	Sponges for arullery	19	337
Getz, Peter	Stove, cooking, steam apparatus	5	144
Getz, Peter	Trunks, water proof	16	303
Getzendenner, Jac	Blankets	3	67
Ghormley, David	Plough	1	17
Gibbons, Joseph	Seeding, seed planters	1	23
Gibbs, Ab	Distilling, still, and furnace setting	4	106
Gibbs, Eli M	Truss	20	344
Gibbs, Eli W	Washing maching	17	315
Gibbs, George	Washing machine	17	16
Gibbs, George B	Water pressure, for propelling ma-	17	318
Gibbs, George M	chinery	11	229
Gibbs, Joshua	Plough	1	18
Gibbs, Joshua	Balance, platform	12	239
. Gibbs, William P	Stair casings, arranging	9	200
Gibney, Michael	Spoons, forks, &c., design	ž	60
Gibney, Michael	Silver forks and spoons, design, N. Y.	•	•
	July 10, 1846, omitted	2	
Gibson, Gavid D., and W. Cobb	Brakes for carriage wheels	10	205
Gibson, Edward.	Carriage bodies	10	207
Gibson, John	Plough	j	16
Gibson, Thomas.	Hydrants	11	293
Gibson, William	Horse shoes, making	2	46
Giddins, Benjamin	Harness, trace and bar, elastic, by		
No.	springs	16	297
Gielhanson, Elias	Distilling by steam	4	105
Gifford, James T	Bark mill	13	249
Gifford, Luther.	Doors, improvement in	9	194
Gignoux, Cl., ass'nee of Louis Henry	Balance cranes	12	239
Gilbert, Charles G.	Horse power	13	255
Gilbert, Daniel		5	131
Gilbert, David H (not Gibert)	Paper making, cards, &c	3	85
Gilbert, David H.	Water wheel	11	230
Gilbert, Ephraim Gilbert, Ephraim	Boring rocks	.9	191
Gilbert, Ezra B	Lock, gun	19 5	335 124
Gilbert, George W	Brick machine	15	285
Gilbert, John.	Steam engine, rotary	6	160
Gilbert, John S	Dry dock	9	193
Gilbert, John S	Dock, floating, dry	9	194
Gilbert, John S	Dock, floating, dry	9	194
Gilbert, John S	Dock, floating, dry	9	194
Gilbert, Joseph	Chimneys, prevent smoking	5	124
Gilbert, Lemuel.	Piano forte	18	325
Gilbert, Myron J.	Thrashing grain and shelling corn	1	28
Gilbert, Timothy	Piano forte action	18	326
Gilbert, Timothy, ass'nce of Edw. Fobes		18	326
Gilbert, William S.	Valve, safety	6	163
Gilbreth and Eaton, assignees of S. Gra-	01.1		
Cildus II Taba (should be Caldwell)	Skiving, &c., leather	16	300
	Tannin	11	231
Giles, John	Tannin	4	. 118
	Spinning cotton	3	89
	Perambulator	8	90 186
Gill, Bennington,		5	139
Gill, Isnac		8	187
Gill, John.	Spinning machine, family and hobbin	9	101
23012 2302 23 24 25 2	winder	3	91
		• ,	~.

PATRICES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
GR, John W	Silk worms, feeding	3	89
Gill and Gill	Plough	ĭ	16
Gillespie, Barnabas	Ice breaker	7	170
Gillaspie, James	Smut machine	1	23
	Distilling, still for	4	106
Gillispie, Robert	Distilling, still and evaporator, &c	4	106
Gillett, Daniel	Cotton seed for food, preparing	4	104
Gillett, Edwin	Straw, cutting	,1	26
Gillett, Jason C	Shingles, cutting	14	278 226
Gillett, Lewis	Furnace and forge back	11 2	44
Gillet, Nathaniel, jr	Plough, cast iron or wrought	ĩ	19
Gillet, Phineas	Stoves	5	136
Gillett, Rinaldo P	Thrashing machine	ĭ	30
	Boring	14	266
	Printing press	18	328
Gilliam, Amos	Cotton, cleaning	3	71
Gilman, Elias	Ointment for cancer	4	112
Gilman, Eliphalet C	Laths and clapboard sawing	14	269
Gilman, Jesse	Washing machine	17	316
	Thrashing machine	1	29
Gillman, Reynolds	Flax & hemp breaking, shelling corn.	3	72
	Forks, manufacture of	2	43
Gillman and Jackson	Bedsteads	17	307
Gilmore, John T	Water wheel, inclined	11	233
	Loom, power	3	81
	Press, screw	12	244 85
	Paper making	3	85
	Loom, weaving figured fabrics	3	83
	Straw, cutting	ĭ	26
Ginteau, Calvin	Salt works	4	115
	Level, horizontal, inclined and plumb	8	185
	Navigation, improvement in	7	171
	Propelling boats	7	172
	Propelling boats	7	172
Giraud, John J	Propelling boats, machinery for	7	173
	Propelling boats and vessels	7	174
	Propelling, inside lever wheel for	7	174
	Propelling paddles, water	7	174
	Propelling vessels	7	175
	Propelling wheels inside lever for	7	176 176
	Propelling wheels, inside lever for Propelling wheels for steamboats	7	176
	Water wheel, horizontal pedal	1i	233
	Stoves, chimney, furnaces, and steam		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	engines	5	138
Giraud, John J	Stoves, stills, and boilers	5	146
	Distilling still, steam, perpetual	4	106
Giraud, John J	Distilling still, steam, perpetual	4	106
Giraud, John J	Distilling still, wooden	4	107
	Oil, cotton seed, purifying	4	112
	Distilling still, double perpetual	4	106
Giraud, John J	Anti-bilious, grand depurative gurider	4	99
	Bath, &c	20	341
Giraud, John J			106
Giraud, John JGiraud, John J	Roller steam stoyes		221 123
Giraud, John J	Distilling	5 4	12a 104
Giraud, John J			260
Giraud, John J			144
Giraud, John J.		5	129
Gladwin, Porter A	Corn sheller	ĭ	-~°9
Glasco, Thomas	Wheels, railroad, fastening rims	10	215

PATENTHES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
Glass, Valentine	Cutting sausage meat	17	31
Bleason, Horace	Furnaces, cooking		19
Heason, James	Screw, manufacturing	2	5
Heason, John and H. C. & N. D. Whit		1	
assignees of Horace Barbour		3	6
leason, Lyman	Splints for brooms	14	26
deason, Lyman	Springs, steel, for carriages	10	21
Heason, Sewell		13	25
	ery for	16	29
Heason and Frishee	Jointing and matching boards	14	26
leim and Herd.	Curriers' knife	16	29
lenn, Gideon		12	24
Henn, John		3	4
Hendenning, A.		1 5	12
Hendenning, A.		17	31
Hendenning, A		17	31
Hendenning, A		17	31
Hendenning, A .		i	i
lendenning, A		22	35
llendenning, A .	Cutting apples	17	31
lover, Lorenzo B		1	1
lover, Ralph	Truss	20	34
lover, Simeon.	Carriages, four wheeled, eross cramp.	10	20
lover and Parmelee	Mortising machine	14	27
oddard, Charles	Water wheel	11	23
oddard, Oliver.	Shingles, sawing	14	27
oddard, William	Ovens, portable	-5	13
lodden, John	Flax and hemp breaking, &c	3	7
odden, Thomas.	Spinning, spindle, flier and bobbin	3	9
odfrey, Ezra	Cement, threefold	4	10
odfrey, John W.	Bellows, furnace	11	21
odfrey, Wm. H.		12	24 13
odfrey and Lane odley, Joseph.		5 7	17
odwin, Thomas		12	24
oell, Alvin C	Rockets, boring	19	33
loell, Alvin C	Rockets, press, filling	19	33
off, Darius		3	9.
old, B. F.	. Steaming, boiling, &c., apparatus	5	13
old, B. F. and Job S	Stoves, fire chambers, &c	.5	14
old, Job S old, J. Swift	Refrigerator	17	31 13
old, S. J. and J. S.	Ovens, union	5 5	14
old, Stephen J	Lamps	5	13
old, Stephen J.	. Ovens, retaining, for baking & cooking	5	13
old, Stephen J		1	2
old, Stephen J		5	14
old, Stephen J		5	13
oldenburgh, John		.5	12
older, Johnoldsborough, Nicholas		18	321
oldsborough, Nicholas	Corn sheller	1 1	35
ollogher, Thomas		i	13
omperts, Benjamin		4	100
ood, Francis		9	195
ood, John	. Corpse preserver, design	22	35
oodall and Tainter		14	266
oodell, Ezra	Thrashing machine	.1	29
oodell, Fred., and Thos. W. Harvey.		14	276
oodell, N. B	. Steam power, increasing	6	162

Goodman   Robert T.   Seeding   Cotton planter   1   2   3   3   3   3   3   3   3   3   3			_	
Goodman, Robert T.   Seeding, cotton planter   1   2   2   3   3   3   3   3   3   3   3	PATHIRIDA.	inventions of discoveries.	CLASS.	PAGE.
Goodman   Thomas			5	131
Goodman and McDonald			_=	22
Goodrich, Charles B.   Staves, dressing   14   98   Goodrich, Charles B.   Staves, dressing   14   98   Goodrich, Charles B.   Staves, dressing, revolving   14   98   Goodrich, Charles B.   Staves, jointing   14   98   Goodrich, Gideon (not Goodrick)   Feet, straightaining real for   20   34   Goodrich, Gideon (not Goodrick)   Feet, straightaining real for   20   34   Goodrich, William   18   Goodrich, William   18   Goodrich, William   18   Goodrich, William   19   Goodrich, William   19   Goodrich, William   19   Goodrich, William   19   Goodrich, William   19   Goodrich and Adams   19   Flough   1   1   1   1   1   1   1   1   1				359
Geodrich, Charlee B.   Staves, dressing   14   28   28   28   28   28   28   28   2				22
Goodrich, Charles B.   Saves, joining.   14   28   Goodrich, Charles B.   Saves, joining.   14   28   Goodrich, Gideon. (not Goodrick).   Feet, straightaining real for.   20   34   Goodrich, Gideon. (not Goodrick).   Feet, straightaining real for.   20   34   Goodrich, William.   Hats, manufacture.   3   77   Goodrich, William.   Hats, manufacture.   3   77   Goodrich, William.   Hats, manufacture.   3   77   Goodrich, William.   Hats, manufacture.   3   77   Goodrich, Milliam.   Hats, manufacture.   3   77   Goodrich, Milliam.   Sock for neck shaping.   21   35   Goodsell, Naman.   Stock for neck shaping.   21   35   Goodsell, Naman.   Thrashing machine and straw cutter.   1   33   Goodsell, Naman.   Thrashing machine and straw cutter.   1   33   Goodsell, Naman.   Thrashing machine and straw cutter.   1   37   Goodwin, Naman.   Flax and hemp machine.   3   77   Goodwin, Samusel.   Tobacco, preparing chewing.   4   116   Goodwin, John, jr.   Crimping leather, machine.   16   Goodwin, Nathaniel.   Protractor, rectangular.   8   180   Goodwin, Samusel.   Churn   10   Goodwin, Samusel.   Churn   10   Goodwin, Samusel.   Churn   10   Goodwin, Samusel.   Churn   10   Goodwin, Samusel.   Churn   10   Goodwin, Samusel.   Churn   10   Goodwin, Cha, assnee of N. Haywood   10   Goodwin, Cha, assnee of N. Haywood   10   Goodwin, Cha, assnee of N. Haywood   10   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, Charles.   Goodwar, G				
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Goodrich, Gideon. (not Goodrick)   Feet, straightening real for   20   30   30   30   30   30   30   30		Staves, jointing.		
Goodrich, Reuben A.   Furnace, tuyeres   2   3   6   6   6   6   6   6   6   6   6				
Goodrich N. G.   Blocks, stereotype, used in printing.   18   32   18   18   18   18   18   18   18   1				44
Hats, manufacture	Goodrich, S. G	Blocks, stereotype, used in printing	18	321
Goodrum, Thomas.   Stock for neck   21   355   Gooddrum, Thomas.   Stock for neck   31   355   Gooddsell, Namon   Thomas   Stock for neck   31   355   Gooddsell, Namon   Thrashing machine and straw cutter   1   33   Gooddsell, Naman   Flax and hemp machine   3   77   Gooddsell, Naman   Flax and hemp machine   3   77   Gooddyn, Naman   Flax and hemp machine   3   77   Goodwin, Reben   Tobacco, preparing chewing   4   41   Goodwin, John, jr   Crimping leather, machine   16   294   Goodwin, Rodersek   Churr   1   1   Goodwin, Rodersek   Churr   1   1   Goodwin, Romusel   Clocks, balance pendulum   8   18   Goodwin, Samusel   Clocks, balance pendulum   8   18   Goodwin, Samusel   Cement, hardening, &c   4   11   Goodwin, Romusel   Cement, hardening, &c   4   11   Goodwin, C, and W. Littlejohn   Stove, parlor, design   1   12   Goodwin, C, and W. Littlejohn   Stove, parlor, design   1   10   Goodyear, Charles   Buttons, manufacturing   2   1   Goodyear, Charles   India rubber fabrics   22   Goodyear, Charles   India rubber fabrics   22   356   Goodyear, Charles   India rubber fabrics   22   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   India rubber fabrics   22   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   India rubber fabrics   22   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goodyear, Charles   Goody	Goodrich, William			77
Goodrum				16
Goodsell   Naman				353
Goodsell, Naman	Goodsell Namon			
Goodsell, Naman	Goodsell Namen		-	
Goodspeed and Wiswell.   Sawing and boring.   14   277   Goodwin, Eben.   16   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116   116				
Goodwin, Rohn.   Tobacco, preparing chewing				
Goodwin, John, jr.				
Goodwin, Nathaniel.			1	
Goodwin, Roderiek	Goodwin, Nathaniel		8	186
Coodwin, Samuel.   Wind wheel, horizontal   11   235	Goodwin, Roderick	I 01	1	7
Goodwin, Samuel.   Cement, hardening, &c.   4   101	Goodwin, Samuel			183
Goodwin, W. and J.   Bark, shaving, tanners'   13   256   Goodwin and Gaines   Clocks, balance pendulum   8   181   Goodyear, Charles   Stove, parlor, design   5   144   Goodyear, Charles   Spoons, manufacturing   2   65   Goodyear, Charles   Buttons, manufacturing   2   2   65   Goodyear, Charles   Enutions, manufacturing   2   2   65   Goodyear, Charles   Enutions, manufacturing   2   344   Goodyear, Charles   India rubber fabrics   22   358   Goodyear, Charles   India rubber fabrics   22   358   Goodyear, Charles   India rubber fabrics   22   358   Goodyear, Charles   India rubber fabrics   22   358   Goodyear, Charles   Faucets, pring lever   11   222   Goodyear, Charles   Faucets, or molasses gate   11   222   Goodyear, Charles   Gum elastic, manufacturing   4   109   Goodyear, Charles   Gum elastic, manufacturing   4   109   Goodyear, Charles   India rubber fabrics   22   358   Goodyear, Charles   Gum elastic   4   101   Goodyear, Charles   India rubber fabrics   22   358   Goodyear, Charles   Gum elastic   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   4   101   Goodyear, Charles   India rubber fabrics   5   10   Goodyear, Charles   India rubber fabrics   5   10   Goodyear, Charles   India rubber fabrics   7   10   Goodyear, Charles   India rubber fabrics   7   10   Goodyear, Charles   India rubber fabrics   7   10   Goo				235
Goodwin and Gaines			1	101
Goodyear, Cha., ass'nee of N. Haywood Caoutchouc, manufacty with sulphur.				250
Goodyear, Charles.   Spoons, manufactring.   2   34   34   34   34   34   34   34				
Goodyear, Charles.   Spoons, manufactaring.   2   34   Goodyear, Charles.   Buttons, manufacturing.   21   Goodyear, Charles.   Fork, steel spring.   1   Goodyear, Charles.   India rubber fabrics.   4   Goodyear, Charles.   India rubber fabrics.   22   Goodyear, Charles.   India rubber fabrics.   22   Goodyear, Charles.   India rubber fabrics.   22   Goodyear, Charles.   India rubber fabrics.   22   Goodyear, Charles.   India rubber fabrics.   22   Goodyear, Charles.   Faucets, spring lever   11   Goodyear, Charles.   Gum elastic, manufacturing   4   Goodyear, Charles.   Gum elastic, manufacturing   4   Goodyear, Charles.   Cament, gum elastic.   4   Goodyear, Charles.   India rubber fabrics.   22   Goodyear, Charles.   India rubber fabrics.   22   Goodyear, Charles.   India rubber fabrics.   22   Goodyear, Nelson   India rubber fabrics.   4   Goodyear, Nelson   India rubber fabrics.   4   Goodyear, Nelson   India rubber, manufactures of   4   Goodyear, Nelson   India rubber, manufactures of   4   Goodon, Daniel   Raft, timber.   7   Gordon, Daniel   Fish, catching   22   Gordon, Edwin   Cannon for chain shot   19   Gordon, Edwin   Cannon for chain shot   19   Gordon, Henry   Saw mills   Carriage   1   Gordon, Henry   Saw mills   Carriage   1   Gordon, Jac N   Press, cotton   12   Gordon, James W W   Solutions, decoction, evaporating   4   Gordon, Jonathan W   Corn sheller   1   Gordon, Jonathan W   Corn sheller   1   Gordon, Jonathan W   Corn sheller   1   Gordon, Jonathan W   Corn sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1   Gordon sheller   1				
Goodyear, Charles.   Buttons, manufacturing.   21   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349	Goodyear, Charles			
Goodyear, Charles.	Goodyear, Charles.			
Goodyear, Charles				<b>13</b>
Goodyear, Charles	Goodyear, Charles		-	109
Faucets, spring lever   11   222   222   223   224   225   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235   235	Goodyear, Charles			358
Goodyear, Charles				358
Goodyear, Charles			1	222
Goodyear, Charles.   Caoutchouc, divesting of its adhesive properties.   4   101				222
Goodyear, Charles			4	109
Goodyear, Charles.   Cament, gum elastic.   4   101	Goodycar, Charles			101
Goodyear, Charles	Goodyear, Charles		7 1	
Goodyear, Charles				
Goodyear, Nelson				
Goodyear, Nelson				
Gookins, Richard		India rubber fabrics	4	109
Raft, timber		India rubber, manufactures of		109
Gordon				77
Cordon, E. and D. T.				176
Gordon, Edwin			- 1	357
Gordon, Elisha         Rolling press for edge tools         2         56           Gordon, Henry         Saw mills         14         274           Gordon, Henry         Saw mills         14         275           Gordon, Henry         Stumps, extracting         9         200           Gordon, Hugh         Steam engine         6         157           Gordon, Jac. N         Press, cotton         12         242           Gordon, James W         Solutions, decoction, evaporating         4         117           Gordon, James W. W         Ointment, mercurial, machine for making         1         112           Gordon, John         Plough, prairie, bogging and ditching         1         21           Gordon, Jonathan W         Corn sheller         1         10				
Gordon, Henry	Gordon, Elisha	Rolling proce for adea tools		
Saw mill, carriage	Gordon, Henry	Saw mills.		
Sordon, Henry	Gordon, Henry	Saw mill, carriage		
Steam engine	Gordon, Henry	Stumps, extracting		200
Press, cotton	Gordon, Hugh	Steam engine		157
117   Gordon, James W. W	Gordon, Jac. N	Press, cotton	12	242
ing	Gordon, James W. W	Solutions, decoction, evaporating	4	117
Gordon, John	wordon, James W. W			
Gordon, Jonathan W Corn sheller	Gordon John	Dlaugh aminis harries and disching		112
Class 1 (2011)		Corn sheller		
			16	294

Patr <b>at</b> s.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Gordon and Bakewell	Glass, hones	15	200
Gore, Silas	Auger, strap	14	265
Gore, Ezekiel	Cooking stove	5	139
Gore, Samuel K	Saw mill, travelling, cross-cut		276
Gorgas, Jacob	Hulling clover seed	1	13
Gorham, Abijah.	Stumps, extracting	3	200 78
Gorham, Chester	Hats, palm leaf, pressing	3	70
Gorham, StephenGori, Ottoviano and Philip Ernst	Cordage, rope and twine	18	325
Gorsuch, William	Kiln, lime	15	269
Gorton, Benjamin	Salts, neutral, from alkali	4	116
Goss, Chester	Grain cradles	1	12
Goss, Daniel, assignee of J. C. Colt	Press, cotton and other	12	243
Goss, Samuel	Shingles, sawing		279
Goss, Samuel	Clap boards, sawing	14	267
Gosselin, Edward	Ovens, portable, and stoves	5	134
Gotta, Leopold	Cooking stove, coal or wood	5	142
Gotthilff, August	Preserving timber from worms	3	114 87
Goucher, Francis	Pulp washing	17	315
Goucher, Francis	Saw mills	14	274
Gould, Aaron	Dying hats	4	107
Gould, Abijah	Clocks	8	183
Gould, Chester	Log, for ships	7	171
Gould, Ezra	Wool, combing	3	96
Gould, M, T. C	Pen, fountain, &c	18	324
Gould, John F	Stoves, open	5	146
Gould, John F	Brick machine	15	265
Gould, John F	Brick and tile	15	287 62
Gould, John F	Trip hammer Thrashing and hulling grass seed	2	26
Gould, Samuel	Nails and screws	2	53
Gould, William	Gin, cotton, foot	$\tilde{3}$	75
Goulding, Charles	Water wheel	11	231
Goulding, Charles	Quadrant, artificial horizon for	8	186
Goulding, John	Wool, manufacturing	3	96
Goulding, John	Wool, manufacturing	3	96
Goulding, John	Wool, manufacturing	3	96
Goulding, John	Wool, manufacturing	3	96
Goulding, John.	Wool, manufacturing	3	96 82
Goulding, John	Loom shuttles, mode of throwing Steam engine, making dry	6	159
Goulding, John	Boilers, steam, and evaporating fluid.	6	159
Goulding, John	Boilers, steam, and evaporating fluid.	6	152
Goulding, John	Boilers, steam, pipes	6	159
Goulding, John	Washing machine	17	318
Goulding, John	Loom, making and using	3	81
Goulding, John	Thread, preventing from waste	3	95
Goulding, John	Wool, composition to start the oil	3	96
Goulding, John	Cordage, rope laying	3	70
Goulding, John	Flax and hemp, preparing, &c	3	73 73
Goulding, John.	Flax and hemp, and tow hatcheling	3 10	213
Goulding, Joseph	Wheels, felloes, cutting and dresssing Iron ore, separating	2	47
Goulding, Joseph	Thrashing machine	ĩ	29
Goulding, Joseph.	Grist mill	13	252
Goulding, Joseph	Press, cheese	12	241
Goulding, Joseph			62
Goulding, William R.	Truss, double pad	20	344
Goulding and Brackett	Cloth, winding up	.3	69
Gouley, Lewis	Hydrants, fountain	11	223
Gourjou, Louis.	Stoves	5	136 . 273
Gove, Jonathan	Saw, circular	14 3	. 213

PATHNYEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Gragg, Samuel	Chairs, elastic	17	310
Graham, Anson B	Saw mill	14	275
Graham, Asa	Stoves and chimney, construction of .	5	138
Graham, Asa	Forges, backs for fires	2	43
Graham, Augustus	Fireplace, grated	5	127
Graham, Augustus	Stoves	5	135
Graham, C. M	Teeth, artificial	20	343
Graham, C. M	Teeth, artificial	20	343
Graham, C. M	Grates	5	129
Graham, John	Press, cotton	12	242
Graham, John	Stove, economical	5	144
Graham, Lorenzo	Knife, saw	2	47
Graham, Seth	Hats, bodies, forming	3	77
Graham, Seth	Steam engine	6	15,7
Graham, Seth	Boilers, steam, regulating height of wa-		l
	ter in	6	153
Graham, William	Sugar boiler	4	117
Graham, William	Excavating canals and ditches	9	195
Grandin, William	Pendulum mill	13	259
Grandjean, Auguste	Composition, dying hair	4	102
Grandy, Lewis, and Thes. Osgood	Balls, cannon, malleable iron	19	333
Granger, Chester	Cooking stove	5	141
Granger, John L	Milk, preserving	1	15
Granger, Moses	Beer or ale, restoring sour or musty	4	99
Granger, Moses	Churn	1	6
Granger, Moses	Hoops, making	14	268
Granger, Rensselaer D	Flues of elevated ovens, &c	5	127
Granger, Rensselaer D	Stoves, cooking	5	142
Granger, Rensselaer D	Stove, cook, double oven	5	143
Granger, R. D	Stoves, rotary	5	146
Granger, William	Balance, Columbian	12	239
Grannis, Charles W	Tuyere, or tew iron		62
Grannis, Charles W	Engine, fire		221
Grannis, John	Lamps, lard	5	133
Grannis, John	Horse mill, lever by using weights	13	255
Grannis and Brand	Steam engine, rotary	6	161
Grant, Isaac T	Winnowing machine	1	35
Grant, John	Cement for water.	4	102
Grant, Joseph	Grist mill	13	253
Grant, Joseph	Hats, bodies, setting up		77
Grant, Joseph	Hats, bodies, winding and setting up.		77
Grant, Joseph	Hats, setting up		78
Grant, Robert	Hulling rice, scouring	1	15
Grant, Robert	Wheels, carriage for railroads		213
Grant, Robert	Car, railroad, &c., mode of connecting		207
Grant, Robert	Saw, annular		273
Grant, Robert C(not Gran)	Steam engine, rotary		161
Grant, Royal C	Water wheel		232
Grantham, Willis	Straw cutter	1	27
Grater, George W	Press, standing, lever and pulley pow-		044
C-4 73	er applied to	12	244
Grattan, Edward	Lotteries, schemes	3	185
Graves, Jacob	Spinning cotton, roving	1 =	89
Graves, M. C	Quadrant, astronomical		186
Graves, Robert			0.0
Guarage Dahaut	Vorm consiliring the strain upon		96
Graves, Robert		3	96
Graves, Robert			70
Graves, Robert			70
Graves, Robert			70
Graves, Robert	Cordege rose Pandiale mage place		1 10
Graves, Robert			70
Graves, Robert	for	3	71
Urraves, Rubert	Cornage, top atcu tof	ن ر	7 11

	I		<del></del>
PATENTERS.	INVENTIONS OR DISCOVERS.	CLASS.	PAGE.
Graves, Robert	Boats, canal, &c	7	34
Graves, Samuel	Noil mashing	5	34
Gray, Albert W	Nail machine, wrought iron Horse power, endless chain	29 13	254
Gray, Albert W	Corn sheller	1	
Gray, Edward	Grist mill	13	25
Gray, Edward	Railroad	9	197
Gray, Frederick	Boots and shoes, pegging machine for	16	295
Gray, George	Lights, glass, for decks of ships	7	171
Gray, George H. D	Tide mills and current	11	229
Gray, Gibbons	Horse tails, holding up after nicking. Plough, breaking and cultivating	22 1	358 19
Gray, James	Syphon, for drawing oil	11	229
Gray, James A	Coffins, metallic	22	357
Gray, Jeremiah	Propelling boats	7	172
Gray, John	Washing machine	17	315
Gray, J. B	Lock, gun	19	335
Gray, J. B	Lock, door, permutation	.3	50
Gray, Levi	Pump, forcing, double	11	226 226
Gray, Levi	Pump, forcing, reverse	11	220 227
Gray, Robert	Corn sheller	il	~~; 9
Gray, Robert	Pumps	11	294
Gray, Salmon	Trees, tearing up	3	200
Gray, Simeon	Churn	1	5
Gray, William	Thread, waste, reducing to cotton,	_ 1	
Class William Wallen	Wool	3	95
Gray, William Waller	Ointment, cure of diseases	4	113
Gredley, James	Wheels, boxes for	3 10	78 21 <del>2</del>
Greely, Allen	Stoves, foot	5	145
Greely, Ebenezer S	Fireplace	5	126
Green, Benjamin	Polishing hard and soft substances	2	55
Green, Benjamin H	Door, inside fastening	2	41
Greene, Benjamin R	Straw cutter	.1	96
Greene, Caleb	Paint millSilk reel	13	259
Green, Charles G	Railroad, preventing cattle on	3	88 198
Green, Job	Camphor, refining	4	190
Green, Joel	Stove, cooking	. 5	140
Green, Joel	Stove, cooking	5	141
Green, John	Buckles, mechanical spring	2	40
Green, John, sen	Water wheel, overshot	11	233
Green, John BGreene, John H	Bleaching cotton and linen, &c	4	100
Green, John H	Marine railway	9	197 176
Green, John V	Nails, wrought	2	54
Greene, Joseph C	Water wheel, spiral bucket	11	234
Greene, Lemuel	Straw cutter	1	25
Greene, Lewis	Smut machine	1	24
Green, P. H. and Harry H. Evarts	Steam engine, rotary, &c	6	161
Greene, RansomGreen, Samuel	Forges, and bellows applied thereto Hose made of canvass	.2	43 923
Green, Samuel	Paper making from sea weed	11 3	86
Green, Thomas	Mortising, lever power	14	270
Green, Timothy	Salt, manufacturing	4	115
Green, William	Lathe, turning	14	269
Green, W., assignee of S. Broadmeadow	Furnace, renovating	2	44
Green and Blakeslee	Timber, bending	14	981 940
Green and MontgomeryGreen and Osgood	Bark mill	13	<b>949</b> 76
Greenholt, John.	Bench	14	266
Greenleaf, Abel	Water wheel	ii l	236
Greenleaf, Abel	Steam engine, rotary	6	166

PATRIK <b>UR</b>	ANVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Cheenleaf, Daniel	Hats, clastic, ventilating	3	77
Greenleaf, John	Excavator, mud machine	9	196
Greenleaf, Joseph(In classification, Greenleaf, John)	Washing machine	17	317
Greenleaf, William C	Cutting grass	i	11
Greenleaf, William C	Seeding grain, sowing	1	29
Greenleaf, Wm. R., and Alonzo Cole	Veneers, cutting	14 14	282 270
Greenkaf and Amidon	Mortising machine	4	112
Greenough, Benjamin F	Lamps, improvement in	5	132
Greenough, B. L.	Wheels, felloes, cutting and dressing.	10	213
Greenough, B. L	Wheels Sewing and stitching straight seams	10 16	212 300
Greenough, John J	Propelling paddles for boats	7	174
Greenville, Alonzo S	Pressing and raising weights, &c	12	245
Grenville, Alonzo S., and T. J. Lewis	Blinds, window	9	191
Greenwood, Cyrus	Spinning jenny Polishing powders for metals	3	96 114
Greenwood, James.	Springs, wooden	10	211
Greenwood, John D., and R. W. Keene.	Cement, artificial stone	4	101
Greenwood, Miles, assignee of Geo. E. Sellers	Latch, door, right and left	2	48
Greenwood, Miles, assignee of Geo. E.	Laken, door, right and lett	~	-
Seliers	Latch and lock, gravitating, &c	2	48
Greenwood, William A	Pegs, pointing	,14	271
Greer, David	Composition, water and fire-proof, for	4	103
Greere, James	Barrels, gun, &c	19	333
Greer, James	Stove, cooking	5	141
Gregg, Ebenezer	Staves, cutting, shaving, and jointing.	14	280 285
Gregg, James	Brick machine	15 1	2
Gregg, James and Joseph	Thrashing machine	ī	29
Gregg, John	Hats, planking	3	78
Gregg, John	Air, condensing apparatus Snow plough, railroads	6	151 154
Gregg, Joseph A	Metal plates, cutting	2	5
Gregg, Mahlon	Tenons, cutting round	14	28
Gregg, Mahlon	Bedstead fastening and key	17	309
Gregg, Thomas	Furnace, blast, smelting iron ore Furnaces, air, for stone coal	2 5	120
Gregg, Thomas	Propelling ball-proof vessels by steam		
	applied under water	7	179
Gregory, Alonson P	Hats, scalding and napping	3 13	78 25
Gregory, Clark BGregory, Robert A	Stove, parlor, design	5	140
Gregory, Robert A	Stove, parlor, cooking	5	140
Gregory, Stephen	Plough, mould board, double	1	20
Gregory, W	Washing machine Bellows, hand	17 11	310 219
Grey, Frederick(not Crey)	Chimneys, prevent smoking	5	124
Gridley, Cyrus	Furnace and pots for melting	2	44
Gridley, Giles	Fireplace	5 5	120 124
Gridley, Giles	Mortising timber	14	27
Grieb, F. and H	Thrashing machine	î	32
Griemer, Philip	Distilling	4	104
Grieve, David	Loom	3	79
Grieve, David	Spinning, roping, and winding cotton	3	92
Grieve, DavidGrieve, David	Boats for ascending rivers	7	168
Griffing, Nereston	Balance	12	239
Griffin, Edward C	Harse power	3 13	77 255
35	TENTO POMOTION	AU [	~~

PATENTEES. INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
Griffin, R. and S. Y. Avery Salt boiler	4	113
Griffin, William Spinning flax, &c., cylindrical frame.	3	8
Griffiths, Elijah Fireplace	5	13
Griffith, George R Bales of cotton, rafts	7	16
Griffiths, John Andirons Andirons	2	35
Griffith, Philo N	.5	131
Griffith, Samuel	11	220
Griffith, Thomas F	16	178 206
Griggs, George S Brakes, safety, railroad cars	10 9	198
Griggs, George S	3	94
Grime, Joshua	5	125
Grimes, William C Spark arresters	6	155
Grimes, William C Spark arresters	6	155
Grimes, William C Spark arresters	6	155
Garlie separators Garlie separators	1	12
Grimes, William C Brick moulding	15	296
Grimes, William C Brick press	15	286
Frimes, William C Hulling clover seed	1	13
Frimes, William C Hulling clover seed	1 ]	13
Frimes, William C Hulling and cleaning clover seed	1	13
Grimes, William C Hulling rice, &c	1	16
Frimes, William C Smut machine	1	94
Grimes, William C Winnowing garlic from grain	1	<b>35</b>
Frimes, William C	8	54
Grimes, William C Nails and spikes from prepared mate-	2	54
rials	6	155
rimston, Edwin	21	352
Frinnel, William V Packing for steam engines	6	154
riscom, Samuel	15	289
friswold, Ephraim Grist mill	13	253
riswold, Giles L. F., assignee of L. E		
Hicks Lamp, alcohol, for vapor bath	5	131
iriswold, Gilea L. F., assignee of Gerard		
Sickels Bedstead, sofa	17	309
driswold, Ira Water wheel	11	230
ariswold, Jesse Barrels, gun, &c	19	333
riswold, Ogden	3	95
Bark, grinding, softening hides, grist	10	249
roat, Jacob	13	15
roat, Jacob Hulling and pearling rice	î l	25
roat, Jacob	13	252
roat, John, jr	9	900
roat, John R Brakes of rail cars	10	206
roat, Warner Hulling rice	1	15
roening, Frederick Hats, palm leaf.	3	78
roff, William D	22	359
iroff, Israel W Straw cutter, &c	1	27
roff, Joseph	3	84
roff, Philip	23	359
roming, Rodolph	3	7 <b>6</b> 57
room, Smith Screws, &c., cutting	, <u>x</u>	334
rosh and Grosh	18	324
rosjean, Phil Corn sheller	1 5	141
ros, Henry N Stove, cooking	12	243
rosvenor, Jacob	17	318
rout, John	2	49
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		55
rout John H and Fourier M Ray Dister door	92 1	
rout, John H. and Fowler M. Rav Plates, door	2	7
rout, John H. and Fowler M. Ray Plates, door	1	

	<del> </del>		
bylekiele-	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Grover and Lawton	Planing and matching	14	272
Groves, M. C	Nails, heading	2	52
Groves, William	Bee hive, slide	1	4
Grumman, Elijah	Bee hives	1	3
Grundy, Rufus	Saw setting	2	57
Grut, Benjamin	Hats, water-proof, of paper	3	78
Grylls, John	Capstans or windlass, ship's, and ca-		l
	ble stoppers	7	169
Gue, John	Wind wheel, machinery	11	236
Guerin, Napoleon E	Life preserver	7	171
Guerin, Napoleon E	Chickens, hatching, artificial heat	22	357
Guess, Solomon	Composition, remove grease from cloth		103
Guest, Henry	Oil, infusing into leather	4	112
Guest, Henry	Sheathing vessels	7	177
Guernsey, Calvin O	Winnowing, fanning mill	1	34
Guernsey, Chauncey	Fireplace and stove	5	127
Guernsey, Sylvanus	Water wheel, sliding gear	11	234
Guild, Abner	Carding hats, wool	3	68
Guild, Charles	Flues, draught of stoves	5	127
Guild, Joseph	Bedstead fastening	17	308
Guild, Joseph	Bedstead screws, cutting	17	309
Guilford, Simeon	Cement, water	4	102
Guilford, Simeon	Cement, water	4	102
Guilford, Simeon	Canal locks, preserving timber of	9	193
Guilford, Simeon	Forge, bloomery for wrought iron	2	43
Guilford, Simeon	Iron, sheet, manufacturing	2	47
Guilford, Simeon	Tanning hides and skins	16 3	302
Guiramond, John MGuireau, Calvin	Loom.	4	79
	Salt, manufacturing	4	115
Guiteau, Calvin	Salt, manufacturing Distilling boiler, double	4	115 105
Guss, Sam., assignee of Wm. Clayton	Brake or lock	10	206
Gustin, John S	Loom, power, wire	3	81
Gustine, James	Churn	ĭ	6
Guthrie, Rufus	Corn sheller	ī	Š
Guthrie, Samuel	Percussion powder	19	336
Guthwaldt, James A	Piano forte	18	325
Gwinn, John D	Washing machine	17	316
Gwynne, James S	Acid, separating oleic from stearic	4	99
Guy, Francis	Color for painting	4	102
Guy, Francis	Carpet, paper	3	69
Guyon, H. G	Press, lever	12	244
Guyon, Henry G	Sleigh runners, to wheel carriages, at-		
	taching	10	210
Hacker, George S	Carriage, car bodies, hanging	10	208
Hackett, Nathan	Washing machine	17	316
Hackley, Harvey	Brewing by steam	4	100
Hackley, Philo M	Furnaces and boiler combined	5	128
Hackley, Philo M	Boiler, cylindrical	5	123
Hackley, Philo M	Boilers, steam engine	6	152
Hackley, Philo N	Distilling still, steam, perpetual, and		
	water boiler	4	106
Hackney, Obed	Plough	1	16
Haddock, Marsden	Paper, making by the flat press	3	86
Hadfield, Geo	Brick and tile	15	287
Hadley, John	Valve, safety	6	163
Hadley, Joseph	Buildings, securing against fire	9	192
Hagans, Harrison	Washing machine	17	317
Hagenmacker, John H	Silver, new, American	4	116
Hagenmacker, John H	Sugar boilers	4	117
Harmer W. C. I.	rireplace, parlor and kitchen	5	127
maggerty, W., C. Lawrence, & S. Frazier	rurnaces, cooking, portable	5	128

Hagner, George F	PATENTERS.	inventions or discoveries.	CLASS.	PACE.
Hagner, George F			14	988
Hague, John.   Pencil case, everpointed.   18   36   Haight, John and N   Twisting, reeling, and doubling machine.   3   9			1 7	1119
Haight, John				100
Cap		Twisting, reeling, and doubling ma-	10	3.09
Haight, John and N		chine		95
Haight and White.   Dye woods, cutting.   14   96   14   14   15   14   15   15   15   15			3	80
Haines, Alford C				69
Haines, Samuel B.				267
Haldeman, Mathhas   Saddles, leather tree   16   16   18   19   19   19   19   19   19   19				
Hale, Aaron				299
Hale, Aaron				944
Hale, Benjamin			10	205
Hale, Benjamin				212
Hale, Benjamin W				207
Hale, Ebenezer   R.				358
Hale, Elisha   Water wheel   11   23   13   14   14   14   15   15   16   17   16   17   17   17   17   17	Hale, Ebenezer R.			227
Hale, Elisha.	Hale, Ebenezer	Saddles and collars		299
Hale, Elisha.			11	230
Hale, Elisha				927
Hale, Enoch   Blocks, stereotype   18   32				232
Hale, E., jr., S. and I.   Carding wool   3   3   4   4   4   4   4   4   4   4	Hale, Enoch.	Blocks, stereotype		
Hale, James	Hale, Ezekiel	Grist mill.		252
Hale, John.	Hale, E., jr., S. and I	Carding wool	3	69
Hale, John.	Hale, James	Spirits, ardent, obtained from lime	4	117
Hale, John and Luke.				945
Hale, Joseph W				265
Hale, Luke   Press, cheese   12				95.E
Hale, Luke   Printing press, hand   18   18   18   18   18   18   18   1	Hale, Joseph W.			79
Hale, Luke.   Printing press, hand.   18   39	Hale, Luke.			242
Hale, Luke.	Hale, Luke	Printing press, hand		327
Hale, Warren and A. Goodman.   Lathe, turning irregular forms.   14   14   14   14   15   15   15   15	Hale Luke			31
Hale, Warren and A. Goodman.   Lathe, turning irregular forms.   14   26	Hale, Nathan	Plates stareotyme	13	256
Hale, William H	Hale, Warren and A. Goodman.	Lathe turning irregular forms	18	
Hale, William H	Hale, William.	Locks or latch for doors	2	50
Hall, A. and J	Hale, William H			159
Hall, Ashman		Silk, removing spots in	4	316
Hall, Alfred.   Brick press.   15   26     Hall, Benjamin.   Boring, mitre point.   14   26     Hall, Benjamin.   Boring, mitre point.   14   26     Hall, Benjamin.   Boring, mitre point.   14   26     Hall, Benjamin.   Boring, mitre point.   14   26     Hall, Benjamin.   Boring, mitre point.   14   26     Hall, Benjamin.   Boring, mitre point.   14   26     Hall, Benjamin.   Boring, mitre point.   14   26     Hall, Benjamin.   Boring, mitre point.   14   26     Hall, Chauncey   Diving dress.   7   7     Hall, Chauncey   Diving dress.   2   2     Hall, Chauncey   Diving dress.   1   22     Hall, Chauncey   Diving dress.   1   22     Hall, Chauncey   Diving dress.   1   22     Hall, Daniel K.   Filtering water.   1   22     Hall, Daniel K.   Feathers, cleaning.   17   31     Hall, Elias, jr.   Boots, treeing.   16   29     Hall, Elisha.   Drilling, metallic and other substances   1     Hall, Fitch.   Distilling, or compound distillation,   4     Hall, Francis.   Loom, lint.   3   8     Hall, Francis.   Hall, Henry G.   Horse power, endless chair.   12     Hall, Henry G.   Horse power, endless chair.   12     Hall, Henry G.   Horse power, endless chair.   12     Hall, Hall, Hanry G.   Horse power, endless chair.   12     Hall, Hanry G.   Horse power, endless chair.   12     Hall, Hanry G.   Horse power, endless chair.   12     Hall, Hanry G.   Horse power, endless chair.   12     Hall, Hanry G.   Horse power, endless chair.   12     Hall, Hanry G.   Horse power, endless chair.   12     Hall, Hanry G.   Horse power, endless chair.   12     Hall, Hall, Hanry G.   Horse power, endless chair.   12     Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, H	Hall Ashman			27
Hall, Benjamin.   Distilling still, steam, and condenser.   4   10   14   26   14   26   14   26   14   26   14   26   14   26   14   26   14   26   14   26   14   26   14   26   14   26   14   26   14   26   15   27   27   27   27   27   27   27   2	Hall, Alfred	Brick press		26
Hall, Benjamin.       Boring, mitre point.       14       26         Hall, Benjamin.       Boring, ship carpenters.       14       26         Hall, Benjamin.       Boring, ship carpenters.       14       26         Hall, Chauncey       Diving dress.       7       7         Hall, Chauncey       Wire, fences and nets.       2       6         Hall, Daniel       Corn sheller       11       22         Hall, Daniel K.       Feathers, cleaning.       17       31:         Hall, David W.       Saw mills.       14       27         Hall, Elisha.       Drilling, metallic and other substances       1       29         Hall, Elisha.       Steam engine, rotary       6       6       16         Hall, Francis.       Distilling, or compound distillation,       4       11         Hall, Francis.       Loom, lint.       3       7         Hall, Henry G.       Horse nower endless chairs       12	Hall, Benjamin.		15	
Hall, Benjamin.   Boring, ship carpenters.   14   26     Hall, B. A. and C   Straw cutting machine.   1   2     Hall, Chauncey   Diving dress.   7   7     Hall, Chauncey   Wire, fences and nets.   2   6     Hall, Christ.   Filtering water.   11   22     Hall, Daniel K.   Feathers, cleaning.   17   31     Hall, David W.   Saw mills.   14   37     Hall, Elias, jr.   Boots, treeing.   16   29     Hall, Elisha.   Drilling, metallic and other substances   1     Hall, Fitch.   Distilling, or compound distillation,   4     Hall, Francis.   Loom, lint.   3     Hall, Francis.   Flax and hemp machine.   3     Hall, Henry G.   Horse nower endless chair.   12     Hall, Henry G.   Horse nower endless chair.   12     Hall, Henry G.   Horse nower endless chair.   12     Hall, Henry G.   Horse nower endless chair.   12     Hall, Henry G.   Horse nower endless chair.   12     Hall, Henry G.   Horse nower endless chair.   12     Hall, Henry G.   Horse nower endless chair.   12     Hall, Henry G.   Horse nower endless chair.   12     Hall, Hall, Henry G.   Horse nower endless chair.   12     Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall, Hall,	Hall, Benjamin	Boring, mitre point.	14	966
Hall, Chauncey   Diving dress   7   17	Hall, Benjamin	Boring, ship carpenters	14	266
Hall, Chauncey   Wire, fences and nets   2   6		Straw cutting machine	1	96
Hall, Christ.   Filtering water.   11   22   11   12   13   14   15   15   16   17   17   18   18   18   18   18   18		Diving dress	7	170
Hall, Daniel K.   Feathers, cleaning   1   1   1   1   1   1   1   1   1	Hall, Christ	Vire, iences and nets	2	64
Hall, Daniel K.   Feathers, cleaning   17   31   17   31   18   19   19   19   19   19   19   1	Hall, Daniel	(Corn sheller	1 1	9
Hall, Elisha. Drilling, metallic and other substances Hall, Elisha. Stasm engine, rotary. 6 Hall, Everard. Selt, manufacturing. 4 Hall, Francis. Distilling, or compound distillation,. 4 Hall, Francis. Flax and hemp machine. 3 Hall, Henry G. Horse power engless chair. 12	Hall, Daniel K.	Feathers, cleaning	17	312
Hall, Elisha. Drilling, metallic and other substances Hall, Elisha. Stasm engine, rotary. 6 Hall, Everard. Selt, manufacturing. 4 Hall, Francis. Distilling, or compound distillation,. 4 Hall, Francis. Flax and hemp machine. 3 Hall, Henry G. Horse power engless chair. 12	Hall, David W.	Saw mills	14	274
Hall, Elisha	tian, Enas, II	Kools ireeing	1 16	295
Hall, Francis. Hall, Francis. Hall, Francis. Hall, Francis. Hall, Henry G. Hall, Henry G. Hall, Henry G. Hall, Henry G. Hall, Henry G. Hall, Henry G. Hall, Henry G. Hall, Henry G. Hall, Henry G. Hall, Henry G. Hall, Henry G.	Elan, Ensue.	I I'mling, metalise and other substances	1 1 .	49
Hall, Francis	Tran, Evelulu	Salt manufacturing		160
Hall, Francis	Tidil, Pitchie	I lightling or compound distillation		105
Hall, Henry G Horse nower endless chain	Francis.	. L-oom lint		81
House power, endless chain 13   25	Hall Honer C	Flax and hemp machine	3	73
Pump, rotary	Hall Isaac	Proper power, endless chain	13	256 227

PATEMPEN.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Hall, Jacob G	Herse pewer, endless chain	13	256
Hall, James	Cultivator	I	10
Hall, Joel, 2d	Spoons, block tin	,2	60
Hall, John	Washing machine	17	316
Hall, J	Shoe making machine	16	300
Hall, John H	Metallic substances, cutting	2	51
Hall, Joshua	Boots and shoes, cutting and forming.	16	294
Hall, Lewis A	Heat, generating by hydrogen	5	130
Hall, Moses	Morocco, polishing and dying	16	298
Hall, Philander,	Keels of vessels, false Stump extracting, and moving heavy	7	170
Hall, Roswell	bodiesStump extracting, and raising heavy	9	200
TT n Commit	bodies	12	245
Hall, Samuel	Metal, cutting oval shapes	2	51
Hall, Samuel	Pistons, lubricating, &c., of steam en-	6	154
Hall, Samuel	Pistons, lubricating, &c., of steam en-		
	gines	6	154
Hall, Samuel	Steam engine	6	157
Hall, Stephen	Plough, draining	1	20
Hall, Sylvester W	Propelling vessels by air	7	175
Hall, William	Lock for banks and safes	2	50
Hall, William	Lock for safes, bank vaults, dec	2	50
Hall, William	Chimneys, sweeping	5	125
Haff, William	Auger	14	265
Hall, William M	Bee hives	1	3
Hall, William	Isingless	4	109
Hall and Chase	Window shutter, fastening	2	63
Halladay, J., T. Eldridge, C. Gibbs, and J. D. Smith	Flax machine	8	74
Hallam, Alexander	Press, portable screw	12	244
Hallock, Henry	Vaults, &c	9	201
Hallock, John	Press, oil	12	244
Hallock, John	Oil, castor, clarifying	4	112
Halloran, Richard	Hat, ventilating	21	352
Halloway, Gooding	Brick machine	15	283
Halloway, Gooding	Wales aliding	21	353
Halloway, Thomas	Valve, sliding	6 1	163
Halloway, Thomas	Valve of the vibrating steam engine	6	163
Halloway, Thomas	Valve, wind gudgeon	.6	163
Halsted, Oliver	Exercise, machines for producing	· 17	313
Haman, Augustus	Chimney, cure for smokey	5	125
Haman, Augustus	Spark arrester	6 13	155 252
Hames, John		2	57
Hamblet, Benjamin	Brick, &c., and tile	15	987
Hamilton, Alexander	Lead, white, and white flake	4	110
Hamilton, Farwell H	Screws, wood, cutting	2	58
Hamilton, James	Trees, &c., mode of felling	ĩ	34
Hamilton, James	Snags, sawing or cutting	9	200
Hamilton, James	Saw mill gates	14	275
Hamilton, James	Pit sawing logs-machine	14	271
Hamilton, James	Saw mill with director	14	276
Hamilton, James	Sawing bevel machinery	14	277
Hamilton, James	Veneers, cutting	14	282
Hamilton, James	Saw for felling trees	14	273
	Saw, wood	14	277
Hamilton, James	Saw, wood	14	277
Hamilton, James	Wheels, felloes, sawing and bering	10	214
Hamilton, Samuel H	Sawing trees	14	277
Hamilton, William A	Straw, cutting, and fodder	1	26
Hamlin, Lemon	Bee palaces	1	4
Hamlin, Samuel E	Engine, fire	11	<b>22</b> 1 ·

Hammond, Charles	PATENTERS.	inventions or discovering.	CLASS.	PAGE.
A Hammond	Hammond, A., assignee of Wm. Adams			
Hammond, Charles		Iron, punching holes	2	47
Hammond, J. and J. McCielland Loose, cassinet 5 Hammond, J. and J. McCielland Loose, cassinet 5 Hammond, Sarab. Fire place. 5 Hammond, Thomas. Bonnet, portable. 2 Hampton, Adam Grates, free place, design. 5 Hampton, Adam Grates, free place, design. 5 Hampton, Adam Grates, free place, design. 5 Hampton, John Grates, free place, design. 5 Hampton, John Boliers, steam supplying. 6 Hampson, John Boliers, steam supplying. 6 Hampson, Francis. Pump, foreing, double 11 Hampson, Robert. Block printing on cotton. 18 Hance, Thomas C. Rake, hay. 1 Hanchett, Joseph Excavating ditches. 9 Hanchett, Joseph Water wheel. 11 Hancock, Robet, sr., and Edward W. Carr Gorge. Washing machine. 17 Hancock, William Bookshinding 18 Hancock, William Bookshinding 18 Hand, Christopher. Water wheel. 11 Hand, Miles B. Water wheel. 11 Hand, Miles B. Water wheel. 11 Hand, Miles B. Water wheel. 11 Hand, Miles B. Washing machine. 17 Handschy, Harry Handys, Hulling barley 11 Hand, Miles B. Washing machine. 17 Handschy, Harry Handys, Stedman Washing machine. 17 Hands, Stedman Washing machine. 17 Hanks, Stedman Washing Bookshing machine. 17 Hanks, Stedman Washing machine. 17 Hanks, Stedman Washing machine. 17 Hanks, Stedman Washing machine. 17 Hanks, Stedman Washing machine. 17 Hanks, Stedman Washing machine. 17 Hanks, Stedman Washing machine. 17 Hanks, Stedman Washing machine. 15 Hannal, James L. Ladder, fire. 22 Hannah, James L. Ladder, fire. 22 Hannah, James L. Ladder, fire. 22 Hannah, James L. Ladder, fire. 22 Hannah, James L. Ladder, fire. 20 Harry, John O., assignee of Jno. L. Dagg, Harbatch, Frederick Truss, metallic, (see class 9, page 192) 20 Hard, David B. Washing machine. 14 Hard, David B. Washing machine. 14 Hard, David B. Washing machine. 14 Hard, David B. Washing machine. 14 Hardy, S. and E. Truss, metallic, (see class 9, page 192) 20 Hardardy, S. and E. Rese, cotton, &c., toggle joint. 14 Hardry, S. and E. Rese, Spining apolofor. 22 Hardry, S. and E. Rese, Spining apolofor. 22 Hardry, S. and E. Rese, Spining apolofor. 22 Hardry, S. and		Quadrants, gunners'	1	186
Hammond, Sarah.   Sire place.   3		Quadrants, gunners'		336
Hammond, Sarab.   Fire place.   5   1   1   1   1   1   1   1   1   1				63
Hampton, Adam   Grates, design.   5				80 127
Hampton, Adam		Ronnet portable		67
Hampton, Adam				129
Hampton, Josse.			5	129
Hampson, John		Grates, fire place, design	5	129
Hampson, John.   Blinds, Venitian		Preserving meats and fruits	4	114
Hamson, Francis.  Hampson, Robert.  Hampson, Robert.  Hanchett, Joseph  Hanchett, Joseph  Hancock, George.  Hancock, Robert, sr., and Edward W  Carr  Hancock, Robert, sr., and E.W. Carr  Hancock, William  Hancock, William  Hancock, William  Hand, Christopher  Hand, Christopher  Hand, S. H., J. Albee, and E. B. Cutts  Hands, S. H., J. Albee, and E. B. Cutts  Hanks, Benjamin  Hanks, Benjamin  Hanks, Julius  Hanks, Julius  Hand, James L  Hannah, James L  Hannah, James L  Hannah, James L  Hannah, James L  Hannah, James L  Hannah, James L  Hannah, James L  Hannah, James L  Hanson, David D  Hanson, Moses R  Hard, David B. W  Hard, David B. W  Hard, David B. W  Hard, David B. W  Hard, David B. W  Hard, John O, assignee of Jno. L. Dagg Hard-ubrock, Abel W  Hard, Sund E  Hard, Sund B. W  Hard, David B. W  Hard, Sund B. W  Hard, David B. W  Hard, Sund E  Hard, Sund B. W  Hard, David B. W  Hard, Sund E  Hard, Sund B. W  Hard, David B. W  Hard, Sund E  Hard, Sund B. W  Hard, David B. W  Hard, David B. W  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Hard, Sund E  Ha	Hampson, John.	Boilers, steam supplying	6	153
Hampson, Robert.			(	191
Hance, Thomas C.   Rake, hay.   1   Hanchett, Joseph   Excavating ditches.   9   Hanchett, Joseph   Water wheel.   11   17   18   17   18   17   18   18				226
Hanchett, Joseph.   Excavating ditches.   9   Hanchett, Joseph.   Water wheel.   11   11   12   12   13   14   15   15   15   15   15   15   15				321
Hanchett, Joseph				21 195
Hancock, George.   Washing machine				231
Hancock, Robert, sr., and Edward W   Gair, cotton   3				315
Gric cotton   3				
Hancock, Robt., sr., and E. W. Carr.   Screws, cutting, wooden   14   Hancock, William   18   Bookbinding   18   Bookbinding   18   18   18   19   19   19   19   19		Gin, cotton	3	75
Hancock, William.	Hancock, Robt., sr., and E. W. Carr	Screws, cutting, wooden	14	277
Hancock, William.	Hancock, William	Bookbinding	18	321
Hand, Miles B.   Washing machine	Hancock, William			46
Handschy, Harry				239
Handy, S. H., J. Albee, and E. B. Cutts   Huniford, Amos C.			_	316
Haniford, Amos C.				13
Hanks, Benjamin   Bells, moulding and casting   2   Stoves   5   5   5   5   5   5   5   5   5		Washing mashing		253 316
Hanks, Stedman W				40
Hanks, Julius   Compass and magnetic needle   8   Hanly, S., assignor to Dunham & others.   Hannah, John S.   Brick machine   15   Hannah, James L   Ladder, fire   22   3   3   4   4   4   4   4   4   4   4	Hanks, Stedman W		1.5	136
Hanly, S., assignor to Dunham & others   Hanna, John S.			_	184
Hannah, James L				137
Hannah, James L   Ladder, fire   22   3   3   4   4   4   4   4   4   4   4			15	285
Hanson, Amog.   Churn.   1	Hannah, James L			358
Hanson, David D.   Wheels, felloes, sawing.   10   Hanson, David D.   Grooving machine   14   14   14   14   14   14   15   15			_	343
Hanson, David D.   Grooving machine.   14   14   14   14   15   14   15   15				6
Hanson, Moses R				214
Hant, Samuel.				268 343
Hara, John O., assignee of Jno. L. Dagg.   Calendars.   18   3   Harbach, Frederick.   Truss, metallic, (see class 9, page 192)   20   3   Hard, David B. W.   Truss.   20   3   Hardenbrook, Abel W.   Screw, swivel, for steam engines.   6   Hardesty, Thomas G.   Hari, carding and picking.   3   Harding, Francis.   Hair, carding and picking.   3   Harding, Robert.   Press, cotton, &c., toggle joint.   12   Shears, cutting pasteboard, sheet iron   12   Hardy, Alvah.   Shears, cutting pasteboard, sheet iron   13   Hardy, Chaples.   Ripening, &c., malt liquor and cider.   4   Hars, Robert.   Blow pipes, hydro-oxigen.   4   Harrival, Charles.   Acid, sulphuric, manufacturing.   4   Harkins, William.   Hats, by steam.   3   Harkness, David.   Rake, grain.   1				229
Harbach, Frederick	Hara, John O., assignee of Jno. L. Dage.			321
Hard, David B. W. Truss. 20 Hard, David B. W. Truss, ladies. 20 Hardenbrook, Abel W. Screw, swivel, for steam engines. 6 Hardenbrook, Abel W. Hardenbrook, Abel W. Hardenbrook, Abel W. Screw, swivel, for steam engines. 6 Harding, Francis. Hair, carding and picking. 3 Harding, Robert. Press, cotton, &c., toggle joint. 12 Hardy, Alvah. Shears, cutting pasteboard, sheet iron Tobacco, spinning spool for. 22 Hare, Robert. Ripening, &c., malt liquor and cider. 4 Hare, Robert, M. D. Blow pipes, hydro-oxigen. 4 Harrival, Charles Liquids, skimming. 4 Harkness, David Rake, grain. 1	Harbach, Frederick			344
Hard, David B. W. Screw, swivel, for steam engines. 6 Hardenbrook, Abel W. Screw, swivel, for steam engines. 6 Hardesty, Thomas G. Press, tobacco. 12 Harding, Francis. Hair, carding and picking 3 Harding, Robert. Press, cotton, &c., toggle joint. 12 Hardy, Alvah Shears, cutting pasteboard, sheet iron Tobacco, spinning spool for. 22 Hare, Robert. Ripening, &c., malt liquor and cider 4 Hare, Robert, M. D Blow pipes, hydro-oxigen 4 Harrival, Charles Acid, sulphuric, manufacturing 4 Hartival, Charles Liquids, skimming 4 Harkins, William Hats, by steam 3 Harkness, David Rake, grain 1	Hard, David B. W.	Truss	20	344
Hardesty, Thomas G	Hard, David B. W		20	344
Harding, Francis				154
Harding, Robert				244
Hardy, Alvah	Harding, Francis.	Process of the second second		76
Hardy, S. and E	Hardy Alvah	Shoors cutting page board sheet iron		243 59
Hare, Robert	Hardy S and E	Tobacco eninning enool for		359
Hare, Robert, M. D	Hare, Robert.	Ripening, &c., malt liquor and cider .		115
Hargreaves, James	Hare, Robert, M. D	Blow pipes, hydro-oxigen	4	100
Harrival, Charles	Hargreaves, James	Acid, sulphuric, manufacturing	4	99
Harkness, David	Harrival, Charles.	Liquids, skimming	4	110
Plarkness, David	Harkins, William	Hats, by steam	3	78
	markness, David	Rake, grain		21
Harlacker, Jacob	Harlacker, Jacob.	Carriages, disengaging horses		208
Harland, Jacob Straw, cutting hay, stalks, &c 1	Harland, Jacob.	Straw, cutting hay, stalks, &c		26
Harley, B. F. and John D. Morris Hinges, butt, moulds	Harley James	Castings shilled sulinder and same		46
	Harley, William I.	Roring chair seats		41 266
Harley and Sedgwick	Harley and Sedgwick	Pumps, air, or ventilator	ii	225

	,	*	<del>-</del>
Patentees.	INVENTIONS OR DISCOVÉRIES.	CLÁÌS.	PAGĖ.
Harley and Sedgwick	Ventilating machine	11	229
Harman, John, jr	Threshing machine	i	30
Harman, John, jr	Mill	13	257
Harmon, Enoch	Thrashing machine	1	29
Harmon, Joseph W	India rubber, softening	4	109
Harmony, John	Granaries, wheat, &c	1	12
Harn, William H	Tenons, cutting	14	281
Harned and Elliott, assignees of Jos. Sax-	Same aim simbs	_	
ton and Geo. Elliott	Stove, air tight	5	137
Harper, Gaylord V	Brick machine	15 15	285 286
Harper, George	Seeding, potatoes, planting	ĭ	23
Harper, George	Hoe	ī	12
Harper, George	Kiln, lime	15	289
Harper, Nathan	Bark, preparation, quercitron	4	99
Harper, William	Flax and hemp machine	3	73
Harper, William	Saddles, elastic seat	16	299
Harriman, John.	Cooking stove	5	139
Harrington, Allen	Medicine cases	4	111
Harrington, Daniel	Galvanic electricity to cure diseases	4	108
Trainingon, Damei	Galvanic electricity, applied to the sur- face of the human body	4	108
Harrington, Daniel	Galvanic fluid, curing diseases	4	108
Harrington, Daniel	Galvanic fluid, curing diseases	4	108
Harrington, Daniel	Fire-proof safe	2	43
Harrington, Daniel	Inketand	18	323
Harrington, Daniel	Pen holders	18	324
Harrington, Daniel	Galvanic instruments	20	342
Harrington, Daniel	Teeth, artificial	20	343 .
Harrington, Daniel	Garments, pockets of	21	352
Harrington, Daniel	Bath, warm, &c	20	341
Harrington, Daniel	Invalids, exercising, &c Ink holder	20 18	342 323
Harrington, Daniel	Boots, lasting	16	294
Harrington, Henry	Fire arms	19	334
Harrington, 1. H	Currier's knife	16	296
Harrington, Nathaniel	Churn	1	5
Harrington, Philip	Thrashing machine	1	30
Harrington, William	Carpet, woollen	3	69
Harrington, William	Carpet, woollen	3	69
Harrington, William	Raising water	11	228
Harris, Benjamin J	Ceiling, fire-proof	4	101
Harris, Charles	Boats, twin	3 7	96 168
Harris, Charles	Warming rooms, iron back-log for	5	147
Harris, E., J. Newton, W. Webster, and		٠ ١	
J. W. Dart	Apples, grinding, potatoes, &c	13	249
Harris, Francis	Steam engine, rotary	6	160
Harris, Frederick W	Sawing irregular forms	14	277
Harris, George	Saw mill, horse, hand, &c	14	275
Harris, Hezekiah	Plough	.1	16
Harris, James B	Brick machine	15	285 42
Harris, James S	Filing hand saws	ĩ -	9
Harris, James S	Silk reels	3	88
Harris, John W.	Oils, detecting adulterated	4	112
Harris, Nathaniel	Spinning wool and cotton by hand	3	94
Harris, Oliver C		13	259
Harris, Perry	Screw, Archimedean	12	245
Harris, Robert S	Spikes, heading	2	60
Harris, Stephen	Ovens, revolving	5	135
Harris, Zadock	Plough	1	16
Harris and Arnold	Loom, temple, revolving par	3	82 950
marms and Wilson	Litist mill	13	252

		_	
PATENTEES.	inventions or discoveries.	CLASS.	PAGE.
Harrison, Alexander	Furnaces and boiler combined	5	198
Harrison, Almond	Cultivator	I	140
Harrison, George A	Lead, white	4	110
Harrison, Isaac	Water wheel	11	930
Harrison, James	Clocks, time part of wooden	8	194
Harrison, Richard	Saddles, spring riding	16	299
Harrison, Richard N	Con miles d &c	10	16
Harrison, Samuel, jr	Car, railroad, &c	10	206
Harrison, Samuel T	Evaporator	10	108
Harrison, Thomas	Music, writing	18	3 <b>94</b> 349
Harrison, T. C	Lancet, revolving	20	301
Harrison, T. O	Splitting skins, machine for	16	167
Harrison and Pierpont	Saddles, trees and spring girth	16	300
Harry, Peter		5	145
Harryman, John	Stoves, Franklin	5	141
Hart, Albert D	Carrieges four-wheeled coupling	10	208
Hart, Alexander H	Carriages, four-wheeled, coupling	14	278
Hart, Alexander H	Shingles, cutting	4	114
Hart, Amos	Rake, collecting apples	ī	21
Hart, John	Excavator	9	196
Hart, John	Bedstead	17	308
Hart, John	Bedstead, tightening	17	309
Hart, Naphtali	Distilling	4	104
Hart, Seth	Cloth, dressing	3	69
Hart, Seth	Nails, manufacturing	2	53
Hart, Silas.	Boots and shoes, lasting	16	294
Hart, Silas	Bee hives	ĭ	
Hart, Simeon	Boots and shoes, cutting by rule	16	294
Hart, Theo	Truss, double spring, &c	20	344
Hart, Walter W	Silver ware manufacture	2	60
Hart, Webb	Horse power	13	255
Hart, Webb	Packing cotton	12	241
Hart, Wabb	Saw mills	14	274
Hart, Wobb	Saw setting	2	57
Hart, Wm. A.	Lock, percussion	19	335
Hart, Wm. J	Hulling grain	1	14
Hart and Fling	Saw mill, save-all	14	276
Hart and Holladay	Thrashing, cylinder and concave	1	28
Hartford and Tilton	Loom, treadles and harness	3	82
Hartley, David	Steel, tempering	2	61
Hartley, Thomas	Brick machine	15	285
Hartman, Jacob	Raising water	11	228
Hartman, John	Roads, constructing	9	199
Hartpence and Bown	Plough	1	18
Hartshorne, Joseph	Paper, carbonated, for multiplying	_	
	writings	3	85
Hartshorn, Oliver S., H. M. Payson, and	~	_	
Aaron Ring	Stove	5	137
Hartsuff and French	Potash, manufacturing	4	114
Hartwell, Isaac B	Door springs, design	2	41
Hartwell, Isaac B	Spinning wool	3	94
Hartye, H		18	325
Harvey, Charles R	Hair, seating, weaving	3	76
Harvey, Peter		10	209
Liames Thomas	in	10	000
Harvey, Thomas	Saddle, spring	16	299
Harvey, Thomas W	Screw heading, blanks	2	58
Harvey, Thomas W	Screw, wood, turning heads	2 2	58 54
Lieuwer Thomas W	Nails and spikes, grooved & flanched.	8	54 54
Harvey, Thomas W	Directs and seneme banding	2 2	56
Harvey, Thomas W	Screw wood turning heads	2	58
Harvey, Thomas W	Screw wood threeding	2	<b>58</b>
	~~~~ wood, unreating	~ '	•

Harvey, Thomas W. Press, cotton. 12 Harvey, Thomas W. Press, cotton. 12 Harvey, Thomas W. Press, cotton. 12 Harvey, Thomas W. Press, cotton. 12 Harvey, Thomas W. Press, cotton. 12 Harvey, Thomas W. Press, cotton. 13 Harvey and Tracey. Wire, cutting and heading. 2 Halvey and Tracey. Hulling rice. 1 Harvood, Samuel, 3d. Distilling. 4 Hasbrouck and Diefenback Hides, breaking. 16 Haseall, J. and D. Griat mill. 13 Hasey, Samuel. Baker & rossing, double reflecting. 5 Haskell, Benjamin. Combs, cutting. 21 Haskell, Benjamin. Combs, cutting. 21 Haskell, Radbury. Blocks, stereotype 18 Haskelt, Bradbury. Blocks, stereotype plates. 18 Haskelt, Bradbury. Blocks, stereotype plates. 18 Haskelt, Bradbury. Blocks, stereotype plates. 18 Haskelt, John and C. Devitt Bedsteads. 17 Haslett, William Vaccinator, spring. 20 Haslup, Rezin. Alelences, hub. 10 Hassard Thomas. Bridges, improvement in. 9 Hassard Thomas. Bridges, improvement in. 9 Hassard and White. Screws, cutting. 2 Hastings, Joseph. Isinglass. 4 Hastings, Joseph. Isinglass. 4 Hastings, Joseph. Isinglass. 4 Hastings, Joseph. Isinglass. 4 Hastings, Joseph. Lamp black. 4 Hastings, Joseph. Lamp black. 4 Hastings, Joseph. Lamp black. 4 Hastings, Joseph. 19 Hatch, John. Files, cutting. 2 Hatch, John. Files, cutting. 2 Hatch, John. Prices, cutting. 2 Hatch, John. Prices, cutting. 2 Hatch, John. Prices, cutting. 2 Hatch, John. Prices, cutting. 2 Hatch, John. Prices, cutting. 2 Hatch, John. Prices, cutting. 2 Hatch, John. Prices, cutting. 2 Hatch, John. Prices, cutting. 3 Hatch, John. Prices, cutting. 3 Hatch, John. Prices, cutting. 3 Hatch, John. Prices, cutting. 3 Hatch, John. Prices, cutting. 3 Hatch, John. Prices, cutting. 3 Hatch, John. Prices, cutting. 3 Hatch, John. Prices, cutting. 3 Hatch, John. Prices, cutting. 3 Hatch, John. Prices, cutting. 3 Hatch, John. Prices, cutting. 3 Hatcher, Jacob J. Reneil and pen combined. 18 Hatcher, Jacob J. Reneil and pen combined. 18 Hatcher, Jacob J. Reneil and pen combined. 18 Hathaway, Alfred. Cooking stove. 5 Hathaway, Jacob. Cooking	ACTION AND ASSESSMENT OF THE PROPERTY OF THE P		-	-
Harvey, Thomas W	PATRICIONO.	IMVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Harvey, Thomas W	Harvey, Thomas W	Screw, wood, nicking heads	2	5 8
Harrey and Praces Hulling rice	Harvey, Thomas W	Press, cotton		243
Harrey and Praces Hulling rice	Harvey, Thomas W			344
Harrey and Praces Hulling rice	Harvey, Thomas W		12	63
Hasbrouck and Diefenback	Harvey and Tracey		_	14
Haseall J. and D.			_	104
Haskell, Benjamin. Combs, cutting. 91 Haskell, Bezra. Fireplace and stoves. 5 Haskell, Roger Mercantile house, navigable. 7 Haskell, Roger Blocks, stereotype. 18 Haskett, Bradbury Blocks, stereotype. 18 Haskett, Bradbury Blocks, stereotype plates. 18 Haskett, Bradbury Blocks, stereotype plates. 18 Haskett, Bradbury Blocks, stereotype plates. 18 Haskett, William Vaccinator, spring 90 Haslett, William Vaccinator, spring 90 Haslett, John and C. Devitt Bedsteads. 17 Haslup, Rezin. Axletrees, hub. 10 Hassard Thomas. Bridges, improvement in. 9 Hassard and White. Screws, cutting. 9 Hassard and White. Screws, cutting. 9 Hassard, James. Kiln, for earthenware. 15 Hastings, David. Boots, trees. 16 Hastings, Joseph. Isinglass. 4 Hastings, Joseph. Lamp black. 4 Hastings, Peter. Plough. 1 Hastings, Peter. Plough. 1 Hatch, Franklin & Jona. W. Terry. Springs, elliptical, carriages. 10 Hatch, Ira. Screws, couplings for. 10 Hatch, Ira. Shock knife. 16 Hatch, Jarael. Shot, chain and cleaver, &c. 19 Hatch, John. Files, cutting. 2 Hatch, John. Friles, cutting. 2 Hatch, John. Buttons. 18 Hatch, John. Chains, watch. 18 Hatch, John. Buttons. 18 Hatch, John. Chains, watch. 18 Hatch, John. Buttons. 19 Hatch, John. Chains, watch. 18 Hatch, John. Buttons. 19 Hatch, John. Chains, watch. 18 Hatch, John. Buttons. 19 Hatch, John. Chains, watch. 18 Hatch, John. Chains, watch. 18 Hatch, William Spikes, manufacturing. 3 Hatch, John. Gen. Cooking stove, nanufacturing. 3 Hatch, William Spikes, manufacturing. 3 Hathaway, Alfred Ruling paper. 18 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to. 5 Hathaway, Jacob. Cooking stove, heat to.				297
Haskell, Benjamin	Hascall, J. and D			252
Haskell, Ezra				123
Haskell, Roger				350 127
Haskett, Bradbury. Blocks, stereotype 18	Taskell Dogge			171
Haskett, Bradbury. Blocks, stereotype plates. 18 Haskill, Roger. Straw cutter 1 Haskins, Isaac H. Hulling clover seed. 1 Haskins, Isaac H. Hulling clover seed. 1 Haskett, John and C. Devitt Bedsteads 17 Haslup, Rezin. Arletrees, hub. 10 Hassard, Thomas. Bridges, improvement in. 9 Hassard and White. Screws, cutting. 2 Hassings, David. Boots, trees. 16 Hastings, David. Boots, trees. 16 Hastings, Joseph. Lamp black. 4 Hastings, Joseph. Lamp black. 4 Hastings, Peter. Plough. 1 Hastings, Prinklin & Jona. W. Terry. Springs, elliptical, carriages. 10 Hatch, George W. Carriage wagons, couplings for. 10 Hatch, Ira. Saw set, guage. 2 Hatch, Ira. Saw set, guage. 2 Hatch, John. Files, cutting. 2 Hatch, John. Files, cutting. 2 Hatch, John. Printing machinery. 18 Hatch, John. Buttons. 21 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., spreading. 1 Hathaway, Alfred. Cooking stove, heat to. 5 Hathaway, Jared. Ruling paper. 18 Hathaway, David. Mortising and boring styles for doors 14 Hathaway, Joseph. Cooking stove, heat to. 5 Hathaway, Joseph. Cooking stove, heat to. 5 Hathaway, Joseph. Cooking stove, heat to. 5 Hathaway, Joseph. Cooking stove, heat to. 5 Hathaway, Joseph. Cooking sto				321
Haskill, Roger				321
Haskins, Isaac H.				25
Haslett, William	Hasking Ispac H			13
Haslet, John and C. Devitt Bedsteads 17	Healett William			345
Haslup, Rezin				308
Hassard, Thomas. Bridges, improvement in. 9 Hassard and White. Screws, cutting. 9 Hassell, James Kiln, for earthenware. 15 16 Hastings, David. Boots, trees. 16 Hastings, Joseph. Isinglass. 4 Hastings, Joseph. Lamp black. 4 Hastings, Peter. Plough. 1 Hastings and Sikes Cooking stove. 5 Hatch, Franklin & Jona. W. Terry. Springs, elliptical, carriages. 10 Hatch, George W. Carriage wagons, couplings for. 10 Hatch, Ira. Saw set, guage. 2 Hatch, Ira. Shoe knife. 16 Hatch, Ira. Shoe knife. 16 Hatch, John. Files, cutting. 2 Hatch, John. Files, cutting. 2 Hatch, John. Files, cutting. 2 Hatch, John. Printing machinery. 18 Hatch, John. Printing machinery. 18 Hatch, Julius. Lime, &c., spreading. 1 Hatch, Julius. Lime, &c., spreading. 1 Hatch, Julius. Lime, &c., spreading. 1 Hatch, Julius. Lime, &c., spreading. 1 Hatch, William. Spikes, making. 2 Hatcher, Jacob J. Pencil and pen combined. 18 Hatcher, Jacob J. Pencil and pen combined. 18 Hatcher, Jacob J. Pencil and pen combined. 18 Hatchway, Alfred. Cordage, manufacturing. 3 Hathaway, Alfred. Cordage, manufacturing. 3 Hathaway, Larles. Loom, family. 3 Hathaway, Jacob. Cooking stove. 5 Hathaway, Jacob. Cooking stove. 5 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Churn. 1 Hathaway, Joseph. Composition, to prevent absorption of animal and fish oils. 4 Hathaway, Rufus. The store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the s				205
Hassard and White. Screws, cutting. 2				192
Hassings, David. Boots, trees. 15 Hastings, Joseph. Lisinglass 4 Hastings, Joseph. Lamp black. 4 Hastings, Joseph. Lamp black. 4 Hastings and Sikes Cooking stove. 5 5 5 Hatch, Franklin & Jona. W. Terry. Springs, elliptical, carriages. 10 Carriage wagons, couplings for. 10 Hatch, Ira. Saw set, guage. 2 2 Hatch, Ira. Shoe kmife. 16 Hatch, Ira. Shoe kmife. 16 Hatch, John. Files, cutting. 2 2 Hatch, John. Files, cutting. 2 2 Hatch, John. Files, cutting. 2 2 Hatch, John. Files, cutting. 2 2 Hatch, John. Files, cutting. 2 2 Hatch, John. Buttons. 2 1 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, William Spikes, making. 2 2 Hatcher, Jacob J. Pencil and pen combined 18 Hatcher, J. W. Cutting apples, &c. 17 Hathaway, Alfred. Cordage, manufacturing. 3 Hathaway, Charles Loom, family. 3 Hathaway, Joseph. Cooking stove. 5 5 5 5 5 5 5 5 5				57
Hastings, Joseph				289
Hastings, Joseph				295
Hastings, Joseph. Lamp black. 4 Hastings and Sikes Cooking stove. 5 Hatch, Franklin & Jona. W. Terry. Springs, elliptical, carriages. 10 Hatch, Franklin & Jona. W. Terry. Springs, elliptical, carriages. 10 Hatch, George W. Carriage wagons, couplings for. 10 Hatch, Ira. Saw set, guage. 2 Hatch, Ira. Shoe knife. 16 Hatch, John. Files, cutting. 2 Hatch, John. Files, cutting. 2 Hatch, John. Printing machinery. 18 Hatch, John. Buttons. 21 Hatch, John. Chains, watch. 18 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius W. Buckles. 2 Hatch, William Spikes, making. 2 Hatcher, Jacob J. Pencil and pen combined 18 Hatcher, J. W. Cutting apples, &c. 17 Hatfield, William Water wheel. 11	Hastings, Joseph			109
Hastings, Peter				109
Hastings and Sikes				20
Hatch, Franklin & Jona. W. Terry Springs, elliptical, carriages 10 Hatch, George W Carriage wagons, couplings for 10 Hatch, Ira Saw set, guage 2 Hatch, Ira Shoe knife 16 Shot, chain and cleaver, &c 19 Hatch, John Files, cutting 2 Hatch, John Files, cutting 2 Hatch, John Buttons 21 Chains, watch 18 Hatch, Julius Lime, &c, spreading 1 Hatch, Julius W Buckles 2 Hatch, William Spikes, making 2 Hatcher, Jacob J Pencil and pen combined 18 Hatcher, Jacob J Pencil and pen combined 18 Hatcher, Jacob J Pencil and pen combined 18 Hatchway, Alfred Ruling paper 18 Hathaway, Charles Loom, family 3 Hathaway, David Mortising and boring styles for doors 14 Hathaway, Joseph Cooking stove, heat to 5 Hathaway, Joseph Churn Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Rufus Wind wheel 11 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wh	Hastings and Sikes	Cooking stove	5	140
Hatch, George W. Carriage wagons, couplings for. 10 Hatch, Ira. Saw set, guage. 2 Hatch, Ira. Shoe knife. 16 Hatch, John. Shot, chain and cleaver, &c. 19 Hatch, John. Files, cutting. 2 Hatch, John. Printing machinery. 18 Hatch, John. Buttons. 21 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius W. Buckles. 2 Hatch, Nathaniel. Composition, water proof. 4 Hatch, William. Spikes, making. 2 Hatcher, Jacob J. Pencil and pen combined 18 Hatcher, J. W. Cutting apples, &c. 17 Hatfield, William. Water wheel. 11 Hathaway, Alfred. Loom, family 3 Hathaway, Alfred. Loom, family 3 Hathaway, Joseph. Cooking stove. 5 Hathaway, Joseph. Spinning cotton and wool 3 Ha	Hatch, Franklin & Jona. W. Terry	Springs, elliptical, carriages		211
Hatch, Ira. Saw set, guage. 2 Hatch, Ira. Shoc knife. 16 Shoc knife. 16 Hatch, Iarael. Shot, chain and cleaver, &c. 19 Hatch, John. Files, cutting. 2 Hatch, John. Files, cutting. 2 Hatch, John. Spiles, cutting. 2 Printing machinery 18 Hatch, John. Buttons. 21 Hatch, John. Chains, watch. 18 Hatch, Julius Lime, &c., spreading. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Lime, &c., sowing. 1 Hatch, Julius Lime, &c., sowing. 1 Lime, &c			10	209
Hatch, Ira.		Saw set, guage	2	57
Hatch, John		Shoe knife	16	300
Hatch, John		Shot, chain and cleaver, &c	19	336
Hatch, John		Files, cutting		42
Hatch, John				42
Hatch, John				327
Hatch, Julius				349
Hatch, Julius W. Lime, &c., sowing. 1 Hatch, Julius W. Buckles 2 Hatch, Nathaniel Composition, water proof. 4 Hatcher, Jacob J. Pencil and pen combined 18 Hatcher, Jacob J. Cutting apples, &c. 17 Hatfield, Jehu Matches, loco-foco, dipping 4 Hatfield, William Water wheel 11 Hathaway, Alfred Cordage, manufacturing 3 Hathaway, Alfred Ruling paper 18 Hathaway, Charles Loom, family 3 Hathaway, David Mortising and boring styles for doors 14 Hathaway, Joseph Cooking stove 5 Hathaway, Joseph Cooking stove, heat to 5 Hathaway, Joseph Churn 1 Hathaway, Joseph Churn 1 Hathaway, Joshua Hydraulic machine 11 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Ruling paper Ruling pape				321
Hatch, Julius W Buckles 2 Hatch, Nathaniel Spikes, making 2 Hatch, William Pencil and pen combined 18 Hatcher, Jacob J Pencil and pen combined 18 Hatcher, J. W Cutting apples, &c. 17 Hatfield, Jehu Matches, loco-foco, dipping 4 Hatfield, William Water wheel 11 Hathaway, Alfred Cordage, manufacturing 3 Hathaway, Alfred Ruling paper 18 Hathaway, Charlea Loom, family 3 Hathaway, Jaca Engine, fire 11 Hathaway, Joseph Spinning and boring styles for doors 14 Hathaway, Joseph Spinning cotton and wool 3 Hathaway, Joseph Churn 1 Hathaway, Joshua Hydraulic machine 11 Hathaway, Jand R Washing machine 11 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus				15
Hatch, Nathaniel. Composition, water proof. 4 Hatch, William Spikes, making. 2 Hatcher, Jacob J. Pencil and pen combined 18 Hatcher, J. W Cutting apples, &c. 17 Hatfield, Jehu Matches, loco-foco, dipping 4 Hatfield, William Water wheel 11 Hathaway, Alfred Ruling paper 18 Hathaway, Alfred Ruling paper 18 Hathaway, Charles Loom, family 3 Hathaway, Javid Mortising and boring styles for doors Hathaway, Isaac. Engine, fire 11 Hathaway, Joseph Cooking stove 5 Hathaway, Joseph Churn 1 Hathaway, Joseph Churn 1 Hathaway, Jand R Washing machine 17 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11				15
Hatch, William Spikes, making 2 Hatcher, Jacob J Pencil and pen combined 18 Hatcher, J. W Cutting apples, &c. 17 Hatfield, Jehu Matches, loco-foco, dipping 4 Hatfield, William Water wheel 11 Hathaway, Alfred Ruling paper 18 Hathaway, Charles Loom, family 3 Hathaway, Javid Mortising and boring styles for doors 14 Hathaway, Isaac Engine, fire 11 Hathaway, Jno. G Cooking stove 5 Hathaway, Joseph Cooking stove, heat to 5 Hathaway, Joseph Spinning cotton and wool 3 Hathaway, Joshua Hydraulic machine 11 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Rufus Wind wheel 11	Hatch, Julius W			40
Hatcher, Jacob J				103
Hatcher, J. W Cutting apples, &c. 17 Hatfield, Jehu Matches, loco-foco, dipping 4 Hatheld, William Water wheel 11 Hathaway, Alfred Cordage, manufacturing 3 Hathaway, Charlea Loom, family 3 Hathaway, David Mortising and boring styles for doors 14 Hathaway, Jaac Engine, fire 11 Hathaway, Jno. G Cooking stove 5 Hathaway, Joseph Spinning cotton and wool 3 Hathaway, Joseph Churn 1 Hathaway, Jand R Hydraulic machine 11 Hathaway, Nathan Washing machine 17 Composition, to prevent absorption of animal and fish oils 4 Hathaway, Rufus Wind wheel 11	Hatch, William			60
Hatfield, Jehu	Matcher, Jacob J			325
Hatheld, William	Hatcher, J. W			311 111
Hathaway, Alfred				231
Hathaway, Alfred. Ruling paper. 18 Hathaway, Charlea Loom, family 3 Hathaway, David Mortising and boring styles for doors 14 Hathaway, Jaac. Engine, fire 11 Hathaway, Joseph Cooking stove, heat to 5 Hathaway, Joseph Churn 1 Hathaway, Joseph Hydraulic machine 11 Hathaway, Jand R Washing machine 17 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway, Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Wind wheel 11 Hathaway Rufus Ruling paper 18 Authaway Rufus				70
Hathaway, Charles				398
Hathaway, David Mortising and boring styles for doors 14 Hathaway, Isaac Engine, fire 11 Hathaway, Jno. C Cooking stove 5 Hathaway, Joseph Cooking stove, heat to 3 Hathaway, Joseph Spinning cotton and wool 3 Chur 1 Hathaway, Joshua Hydraulic machine 11 Hathaway, Nathan Washing machine 17 Composition, to prevent absorption of animal and fish oils 4 Hathaway, Rufus Wind wheel 11				80
Hathaway, Jo. C. Cooking stove. 5 Hathaway, Joseph Churn 1 Hathaway, Joseph Churn 1 Hathaway, Joseph Churn 1 Hathaway, Joshua Hydraulic machine 11 Hathaway, Jand R Washing machine 17 Hathaway, Nathan Composition, to prevent absorption of animal and fish oils 4 Hathaway, Rufus Wind wheel 11		Mortising and horing styles for doors		270
Hathaway, Jno. C				221
Hathaway, Jno. G			_	140
Hathaway, Joseph				143
Hathaway, Joseph	Hathaway, Joseph	Spinning cotton and wool.		89
Hathaway, Joshua	Hathaway, Joseph	Churn		5
Hathaway, J. and R	Hathaway, Joshua			223
Hathaway, Nathan				315
Hathaway, Rufus				
Hathaway, Rufus Wind wheel 11	• .	animal and fish oils	4	103
Hathaway Sylvania Washing machine	Hathaway, Rufus	Wind wheel	11	235
adminimaly, wystamos accesses access to deming indimine accesses accessed if	Hathaway, Sylvanus	Washing machine	17	316
Hathaway, Sylvanus	Hathaway, Sylvanus	Press, flour	12	243
Hatton, Thomas Steam engine 6	Hatton, Thomas	Steam engine	6	156
Haviland and Bennet Fire-arms, many chambered 19	Haviland and Bennet	Fire-arms, many chambered	19	334
36	36			

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PATENTEES.	Myrhtions or Discovatings.	CLASS.	PAGE.
Haveland, Fred., and Ebenever Tuxle	Water wheel	11	986
Haughtailing and Maneely	Milk, drawing from breast	20	34
Hauk, Caleb	Tanning hides, lining and handling in		30
Haupt, Henry Y. and Ab'm, jr	Kiln, drying grain	5	14
Haupt, Herman	Bridges, lattice	9	19
Hauser, Philip	Grist mill	13	98
Haven, James		14	98
Havener, T. and T. H	Crackers, cutting	17	31
Havill and Curran	Blacking	4	10
Haw, John	Horse power.	13	98
Haws, John	Thrashing machine	1	9
Hawes, Cyrus	Square, carpenter's	14 .	99
Hawes, John	Flax, dressing	3	7:
Hawes, Jonathan	Dock, floating, dry	9	190
Hawes, Paul		14	27
Hawes, Silas		3	4
Hawkes, Charles W	Press, cotton and hay	12	24
Hawkes, Charles W	Press, cotton and hay	12	94
Hawks, John	Pills	4	11
Hawk and Keyea	Shingles, dressing	14	27
Hawkins, John	Mortising machine	14	27
Kawkins, John		15	26
Hawkins, John	Visors, leather, machine for cutting,		
	for caps	16	36
Hawkins, John J	Musical instruments	18	32
Hawkins, John J	Piano forte	18	32
Hawkins, John J		8	180
Hawkins, Joseph	Planing machine	14	27:
Hawkins, Joseph	Steam engine	6	150
Hawkins, Joseph	Lamps for liquids to be burnt therein.		133
Hawkins, Joseph			130
Hawkins, Joseph	Mineral water, artificial.		111
Hawkins, Joseph			11
Hawkins, Samuel	Carriage, gun	19	33
Hawkins, Wm. M		1 4	113
Hawkins and Emery	Salt water evaporator	4	110
Hawley, Hezekiah	Flax and hemp cleaning machine		7
Hawley, Hezekiah		3	7
Hawley, Wm. C	Corn sheller	i	1 1
Hawley, Wm. C	Winnowing machine, fanning mill	li	3
Hawood, Anson	Inkstand		39
Hawood, William	Tile and pan	15	29
Haworth, Wade			29
Haworth, William	Spinning cotton		8
Haworth, William	Spinning mule, carriage for cotton	3	9
Hayden, Benjamin, jr	Churn	Ĭ	-
Hayden, Festus.			34
Hayden, Festus.	Buttone		34
Hayden, H. H.	Teeth, preventing decay	20	34
Hayden, Horace H	Oil, pyroligneous and acid, for tanning		11
Hayden, Josiah.	Buttons	21	34
Hayden, Noah G	Flax and hemp, break'g and thrash'g.	3	7
Hayden, Warner	Harness faatenings	16	29
Haynes, Hezekiah	Rake, hay, teeth for	1	2
Haynes, Richard	Bolt and spike, drawing	2	4
Haynes, Samuel.	Bench, perpetual shoe	16	29
Haynes, Samuel	Shoe pattern	16	30
Hay, Samuel L	Balance, platform	12	23
Haye, Benj. F	Chairs, easy	17	31
Hays, Henry	Nails, manufacturing	2	5
Hays, Simeon		1	1
tiones Anguelia A	l'Ionnin ortmotine		114
Hayes, Augustus A	Tannin, extracting	4 5	21

225 24

101 132

127

Fire places....

PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Hamming John and Hawison G. Dway	Sada sauhanata manufacturing	4	114
Hemming, John and Harrison G. Dyar Hemming, John	Soda, carbonate, manufacturing Gas metres	6	15
Hemming, Richard	Car, railroad, connecting links	10	907
Hemming, Richard	Type setting, cylindrical	18	300
Hempstead, Stephen, jr	Hats, water-proof, stiffening		76
Hempstead, Stephen, jr	Hats, water-proof, stiffening	3	76
Hench, Zachariah R	Bee hives	ĭ	3
Henderson, Allen	Tan vats, heating water in them	16	303
Henderson, David	Lithography		323
Henderson, Joseph	Carriages, suspending, pleasure	10	200
Henderson, William	Stoves	5	135
Henderson and Clayford	Water wheel, reacting	11	233
Watson)	Garmente messuring &c	21	352
Henderson and Russel	Water wheel, reacting	11	233
Hendrick, Benj. W. and Horace	Loom, weaving	3	83
Hendricks, Geo	Excavating canals	9	195
Hendrick, H	Loom, power, and taking up motion.	3	81
Hendricks, William	Pumps		224
Hendricks and Elwell	Stoves and fireplace	5	144
Hendryx, B	Washing machine		315
Hendryx, Isaiah J	Garments, measuring	21	352
Hendryx, Josiah J	Scale for measuring	8	186
Hendryx and Price	Steam engine	6	156
Henfrey, Benjamin	Distilling and evaporation, &c	4	105
Henfry, Benjamin	Light, extracting from fuel	4	110
Henkel, Ambrose	Cutting sausage meat	17	312
Henning, George	Saw mill, dog, self-setting		275
Henning, George	Hats, sizing and napping		78
Henry, Arthur	Water wheel, canal race, &c	11	232
Henry, James	Clocks	8	183
Henry, James	Longitude, finding	8	185
Henry, Lewis	Ruling machine for paper	18	328
Henry, Pierre Désire	Raising water by wheel	11	228
Henry, Robert H.	Wheels, felloes	10	213
Henry, Theron	Washing machine	17	314
Henry, William	Liquid, mode of evaporating	4.	110
Henshaw, Foster	Pump, double, moulds	10	226
Henshaw, Foster	Preserving shingles from decay	4	114 103
Henshaw, Foster	Composition, preserving shingles	4	227
Henshaw and Harlow	Pump for ships	11	200
Henson, John	Roofs, fire-proof and water-tight	9	302
Herapath, William	Tanning	16	89
Herbert James	Loom reeds, metallic	3	21
Herbert, James	Plough, excavating ditches	1 2	93
Herbert O. P.	Spinning and twisting thread	3	307
Herbert, O. R	Bedsteads	17	10
Herbert, Richard Herd, Joseph, jr	Cultivator	17	312
Heriges, John J	Cutting vegetables	22	359
Heritage, George	Tobacco, twisting	3	88
Heritage, George	Silk, reeling	3	86
Heritage, George	Silk, skeining	3	92
Herman, James	Silk, spinning Grooving plane	14	268
Heermance, Garet G.	Water wheel		230
Hermance, Garet G	Cooking stove	5	140
Heermance, J. A	Thrashing and breaking flax	ĭ	27
Hermance, John C.	Stove cooking		141
Hermange, Anthony	Propelling ships, &c	7	175
Hermange, Anthony	Propelling ships	7	175
Hermange, Anthony	Propelling ships	7	175
Hermange, Anthony	D. I C. T. C. T. C. C. C. C. C. C. C. C. C. C. C. C. C.	6	151
	Bollers, steam		
Herrly, John Herr, Elias	Cultivator, corn plough	1	10- 106

the second of the second			<u> </u>
Patentees.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Herrick, Eb	Spinning machine, domestic	3	91
Herrick, Eb.t	Loom, stocking	3	82
Herrick, Hiram	Piano forte, action of	18	326
Herrick, Hiram H	Shingles, cutting	14	278
Herrick, John, jr	Elevator, water	11	221
Herrick, Samuel	Saw gate, give motion to	14	273
Herrick, Webster Herrick, William A	Hulling rice and other grains	1	15 6
Herring, Joseph	Dying hair of seal skins	4	107
Herron, James	Railroad, construction of	9	138
Herron, James	Car, railroad and wagon, &c	10	207
Hersey, John	Thrashing machine.	i	29
Hersey, Sylvanus C	Thrashing and winnowing machine.	1	33
Hérshe, Abraham	Hopper filler, or bolting flour	13 21	256 351
Hess, David	Raising water by weight	îi	228
Hess, John J	Sieve or riddle, for separating ashes		,
•	from cinders	5	135
Hess, John J	Cooking machine	5	126
Hess, William	Plough	1	17
Hesser and Paxson	Files, cutting	2	42
Hestor, William	Car, locomotive	10	206 33
Hetzel and Bevier	Stoves, cast iron	5	138
Hetterick, Robert	Fireplace, Columbia	5	127
Heurteloup, Chs. Lewis Stanisl. Baron	Fire arms, portable	19	334
Hewes, Geo., and R. C. Marsh, N. W.		_	
Tileston	Piano forte	18	325
Hewes, Joseph N	Copper, tin, &c., seaming	2	41
Hewet, Henry W	Screw wrench	2 12	59
Hewitt, Samuel	Press, hay	4	244 100
Hewitt, Thomas, jr	Candles, moulds	4	100
Hewitt, Thomas, jr	Candles, moulds	4	100
Heygel, Joseph	Smut machine	1	24
Heygel, Joseph	Smut machine, &c	1	25
Heywood and Fisher	Wheel animal nermandicular	13	140
Hiatt, Zach	Wheel, spiral, perpendicular Horse power	13	261 256
Hibbard, Elias	Balance for counters, &c	12.	239
Hibbard, E. A. and A	Balance, platform, double lever scale.	12	239
Hibbard, Harmon	Dyeing	4	107
Hibbard, Harmon	Hats and furs, coloring	3	77
Hibbard, Harmon	Coloring and finishing leather	16	295
Hibbard, HHibbard, Harman	Paint, composition	5	113 145
Hibson, James	Trunk, travelling	16	303
Hickman, Adam	Saddles, spring	16	299
Hickman and Davenport	Leather, manufacturing	16	298
Hickox, Horace	Fulling and scouring cloth	3	74
Hicks, Jonathan	Nails, cutting	2	51
Hicks, Lucien E	Dies for iron door knobs	2 20	41
Hicks, Lucien E., and Thos. Miner Hidden, Enoch	Baths, medicated vapor	19	341 333
Hidden, Enoch	Lock, percussion, cannon	19	335
Hidden, Enoch	Lock, percussion, cannon	19	335
Hidden, Enoch, assigned to S. Ringgold			
and J. P. Moore	Lock, percussion, cannon	19	335
Hidden, Enoch, assignee of Hidden and		10	999
Sawyer	Cannon locks	19	333 104
Higbie, S. C		11	223
Higbie, S. C	Pump.		225
Higgins, Aaron	Tan vats, constructing	16	303

	!	,	
PATENTEES.	INVENTIONS OR DISCOVERSIS.	CLASS.	PAGE
Higgins, Charles	Cooking store	5	100
Hisping, Eb.	Engine, fire	11	221
Higgins, Uriah	Drilling rocks	9	198
Higginson, Henry	Constructing ships and vessels	7	100
Higgs William	Door knobs, casting	2	41
Higham, Abraham	Washing machine		314
Hight, George	LICE, MARKETING MARKET W.		12
Higley, Henry	Water wheel, letting on water		233
	Canal locks, shuice gate		198
Hill, Abel	Cordage	3	70
Hill, Allen	CordageBeaming	16	256
Hill, Arundel	Latch or window fastener	2	48
Hill, Benj. K			255
Hill, Charles			161
Hill, CharlesHill, Daniel P	Cultivator	1	19 15
Hill, Dudley	Plough, gathering weeds under furrow	i	20
Hill, Eli F	Washing machine	17	314
Hill, Eli F	Flax and hemp machine	3	73
Hill, H. V	Refrigerator	17	313
Hill, Increase S., and Jos. Dixon	Composition, bearings	4	102
Hill, Jonathan.	Boot and shoe soles, cutting	16	295
	Cooking stove, and warming rooms.		144
Hills, Luther	Razor strop and case		967 353
Hill, Luther and Aaron	Fire ladders		357
Hill, Moses 1		20	343
Hill, Porter			210
Hills, Samuel	Balance, steelyards	12	940
Hill, Selah	Dock, floating, dry	9	194
Hills, Silas	Shearing machine	3	- 88
Hill, Solomon.			289
Hills, Stephen, 2d	Cordage, rope making	3 18	329
Hill, William B	Grates of lime kilns	5	129
	Needle and pin machine	2	54
Hill, William P.		14	273
	Combs, stamp machine	21	351
Hilliard, David H		5	140
Hillard, Jos.	Sumach, manufacturing	.4	118
Hillias, John W.	Pumps	11	255 156
Hilton, John Hilyard, E	Wells, sinking	6 9	201
Hinds, Jacob.	Mowing grass under water	ĭ	15
Hinds, James.	Wheel hubs, boring	10	214
Hinds, Stephen.	Washing machine	17	315
Hinds, Stephen	Washing machine	17	315
Hinds, Stephen	Beer, composition for making	4	99
Hinds, William	Tire and hoops, punching & binding.	10	211
Hinds, William Hinds, Ball, and Pike		11	229
Hine, Charles S.	Water, applying	5	136
Hines, Joseph.	Trip hammer	2	62
Hines, William.		_	
	ton	3	92
Hines and Bain	Flax, dressing	3	72
Hines and Bain	Flax and hemp machine		73
Hines and McCord	Wheel, chain		261 287
Hinkle, Charles	Spring, carriage, steel elliptical	10	218
Hinkle, John D	Steam, generating, and refiner	6	169
Hinkley, Benjamin	Washing machine	17	316
Hinkley, Benjamin	Washing machine	17	316

PATRIMICE.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Minkley, Benjamin	Press, cheese	19	942
Hinkley, Benjamin	Corn, grinding by hand or horse power	13	931
Minkley, Benjamin	Horse power	13	255
Minkley, Benjamin	Bedstead fastening	2	- 40
Minkley, Benjamin	Hoe	1	12
Minkley, Benjamin	Thrashing machine	1	31
Minkley, Benjamin	Veneers, glueing on column	14	982 205
Minkley, Benjamin	Axletrees, diminishing friction	10 10	203
Minkley, Holmes	Carriages, locomotive connecting Chimneys, cleaning	5	124
Hinkson, Lewis	Churn, spiral spring	ĭ	7
Hinman, David	Axes, forging	2	39
Hinman, David	Azes, hatchets, &c	2	39
Minman, David	Piston, folding	6	154
Hinman, David.	Pumps	11	225
Minman, Isaac	Hoes, manufacturing	2	46
Minman, Isaac	Rolling metals	2	56
Hinman, Jesse	Spindle, oil, bush	13	260
Minman, John	Packing flour		241
Hinman, John John Thatha and	Planing and sawing bellows boards	14	272
Hinman, Justus, John Thatcher, and		14	278
Alonzo Palmer	Water wheel, two at a time	îi	235
Hinton, Jacob H	Brooms, machine for making	17	309
Hirst, Thomas	Stoves	5	135
Hiser, Henry	Beehives	ĭ	3
Hitchcock, Cyrus	Churn, pendulum	ī	7
Hitchcock, David.	Corn sheller	1	9
Hitchcock, David	Plough	1	16
Hitchcock, David.	Plough, cast iron	1	19
Elitchcock, James R., & Wm. F. Serrell			242
Hitchcock, Lemuel	Stoves and fireplace		144
Hitchcock, Levi	Saw, circular		273
Hitchcock, Silas	Press		241 315
Hitchcock, Silas	Washing machine		230
Hitchcock & Bement	Boots and shoes, manufacturing	16	294
Hitchcock & Stone	Press, cheese	1	241
Hitt, Daniel F.	Churn	1	7
Hittel, Philip	. Truss, common, convex	20	344
Hizer, Henry	Clover, mill hulling	1	8
Hizer & Cawford	. Thrashing machine		32
Hoadley, Benjamin	Shaving woods for various purposes	14	278
Hoadley, Benjamin	Lathe, wheel	14	269
Hoagland, John V. L	. Spark arresters		155
Hoar, Samuel L	Cutting sausage meat		312
Hoard, Francis			278
Hoard, George A	Shingle machine	1	90
Hoats, Daniel			26
Hobart, Abraham	Wagon, tilting	1 40	219
Hobart, Jeshua	Mining auger	9	192
Hobday, John	. Vessels, ascertaining centre of gravity	7	178
Hobday, John	. Cannon pointing	. 19	333
Hobday, John, & Wm. J. Cocke	Propelling wheel, &c	. 7	174
Trouble, Kirred C., or W.m. S. I nompson	· D.11008, giana	. 2	48
Hobbs, James R.	Forge, blacksmiths'	٠, ١	43
Hobbe, Jonathan, jr	. Shingles, &c., sawing		279
Hobbs, Jonathan, jr	Shingles, &c., sawing	. 14	279
Hobbs, William	Locks, secret, safety	2	18
Hobe, Charles F			3
Hock, Lawrence		' *	1 *
	. ·	•	

PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
TI. J A (S		
Hodges, A. (assignee of Cullen Whipple) Hodges, Alexander, (assignee of Cullen		2	56
Whipple)	Screws, wood, &c	2	56
Hodge, James	Brick, making and drying Brick, press	15 15	286 287
Hodges, Jonathan	Spark arresters	6	155
Hodges, Nathaniel F	Water wheel, reaction	11 16	234 300
Hodgson, Ralph	Oil, silk, manufacture	3	85
Hodgson, William	Brick and tile	15 1	287 28
Hodge & Dorr	Mill stones, picking	13	258
Hoe, Richard M	Metallic surfaces, grinding & polishing		51
Hoe, Richard M	Printing press	18 18	327 328
Hoe, Richard M	Printing press	18	328
Hoe, Richard M	Printing press	18	328 323
Hoe, Robert	Press, standing, frame	18 12	323 244
Hoegg, William H	Press, oil	12	244
Hoffer, Samuel Hoffman, George	Seeding, sowing grain, &c Winnowing wheat	1 1	23 36
Hoffman, Isaac	Distilling apparatus	4	105
Hoggan, James M	Loom, power, figure	3	81
Hoggan, James M Hogle, Sidney S	Latch, door	11	48 225
Hogle, Sidney S	Lathe chuck, universal	14	268
Holbrook Regismin	Plough	1	17 81
Holbrook, Benjamin A	Rivet for pickers	3 2	56
Holbrook, David	Medicine, canker drops	4	111
Holbrook & French	Spark catcher	6 3	155 81
Holbrook & Thomas	Printing press	18	327
Holorook & Thomas	Printing press	18	327 334
Holcomb, Albert	Paint mill	19 13	259
Holcomb, Jedediah	Nails, shoeing horses and oxen	2	53
Holden, Charles	Wind wheel	11	235 29
Holdredge, William	Drilling stone	9	194
Holladay, Seymour	Whips, platting machine, for covering	16	303
Holland, Harrison	Hats, bowing wool for	3 14	77 266
Holland, Harrison	Spinning silk, &c	3	92
Holland, Homer	Paper, preparing husks to make	3 4	86 110
Holland, Homer	Lead, white	4	110
Holland, Luther	Pump, horizontal	11	226
Holland, Luther	Pump, horizontal Engine, fire, horizontal	11	226 221
Holland, Samuel	Grist mill	13	253
Hollenstein, William Holley, George W	Colors for coachesGrist mill	13	102 252
Holley, Philologus	Cooking stove	5	139
Hollingshead & Baker.	Hair, extracting from fur	3	76
Hollingsworth, John M., and Lyman	Paper engine, regulator	3	85 86
Hollingsworth, William	Tanning	16	301
Holliday, Elias	Horse wheel, inclined	13	257 167
Hollins, William Hollister, David S	Corn sheller	i	10.
Holloway, George	Carriages, calash top	10	208
Holmes, Almoran	Weights, raising	12	245

Holmes, Alonson.				
Holmes, Ahson	PATEIFFORE.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Holmes, Elijah Boot forms, beveling 16 293 Holmes, Harvey Staves, saw 14 291 Holmes, Harvey Staves, saw 14 291 Holmes, Hodgen Gin, cotton 3 75 Holmes, James G Invalid's chairs 20 34 Holmes, John Press, cheese and eider, &c. 12 242 Holmes, John B Press, cheese and eider, &c. 12 242 Holmes, John B Holisting machinery 12 240 Holmes, John B Holisting machinery 12 240 Holmes, No Stone, sawing 15 290 Holmes, Philip B, and Wm. Pedrick Hides for ropes, cutting 16 297 Holmes, Richard C Hatches, preventing leaking 7 170 Holmes, Samuel L Water power, increasing by atmospheric pressure 11 229 Holmes, William Windlass and capetan, &c. 7 173 Holmes, Richard C , and Jonathan J Springer 1 2 240 Holmes, Richard C , and Jonathan J Springer 1 2 240 Holton, Holmes 1 2 240 Holton, Holton, Blisha Windlass and capetan, &c. 7 173 Holt, Horaco Loom reeds 3 83 Holton, Blisha Ploughahare, coulter, & mould board 1 21 Holton, Blisha Grove 1 2 24 Holton, Blisha Grove 1 2 24 Holton, Brisha Holton 1 2 2 2 Homer, Daniel Holton 1 2 2 2 Homer, Daniel Holton 1 2 2 2 Homer, Daniel Holton 1 2 2 2 Honey, John W Sides Holton 1 2 2 Honey, John W Solone, steering table 1 2 2 Honey, John W Solone, steering table 1 3 3 Hooper, Blake & Richardson, assignees of William Blake 1 3 3 Hooper, John Holton Boliers, steam, regulating height of water in 1 3 Hopper & Doughty Hulling clover seed 1 3 Hopper, John Window seah 9 3 1 Hopper, John Holper, Samuel Potash and paeriash, manufacturing 1 3 Hoppins, Jassa Hopkins, Jassa Nonthins, Ramuel Potash and paeriash, manufacturing 1 3 Hopkins, Samuel Potash and paeriash, manufacturing 1 3 Hopkins, Samuel Mustard, preparati		Bellows, smiths'	11	219
Holmes, Eliaha H.				
Holmes, Harvey	Holmes, Elijah			
Holmes, Harvey				
Holmes, Hodgen				
Holmes, John John Press, chease and eider, &c. 12 242 Holmes, John B Steering vessels. 7 178 Holmes, John B Hoisting machinery. 12 240 Holmes, N 15 240 Holmes, N 15 240 Holmes, N 15 240 Holmes, N 15 240 Holmes, N 15 240 Holmes, N 15 240 Holmes, N 15 240 Holmes, N 15 240 Holmes, N 16 397 Holmes, Richard C. Hatches, preventing leaking. 7 170 Holmes, Richard C. Hatches, preventing leaking. 7 170 Holmes, William Auger, twisted sersw, for boring guns. 16 237 Holmes, William Windlass and capstan, &c. 7 179 Holmes, Richard C., and Jonathan J. Springer. Steering wheels. 7 178 Holt, Horaco. Loom reeds. 3 357 Holt, Horaco. Loom reeds. 3 320 Holt, William Ploughahare, coulter, &c. mould board. Holton, Elisha Grat mill, constructing. 13 254 Holton, Plants Holton, Risham Holton				
Holmes, John B. Press, cheese and eider, &c. 12 242 Holmes, John B. Steering vessels	Holmes, Ismes G.			
Holmes, John B.				
Holmes, John B				
Holmes, N.			12	240
Holmes, Richard C.			15	290
Holmes, Samuel L. Water power, increasing by atmospheric pressure. 11 229 Holmes, William. Auger, twisted sersw, for boring guns, dc. 14 265 Holmes, John, and A. West Holmes, John, and A. West Harpoon. 22 357 Holmes, Richard C., and Jonathan J. Springer. Steering wheels. 7 178 Holt, Horace. Loom reeds. 3 824 Holt, William. Ploughahare, coalter, dc mould board. 1 21 4 266 Holt, William. Ploughahare, coalter, dc mould board. 1 21 4 266 Holt, William. Ploughahare, coalter, dc mould board. 1 21 4 266 Holt, William. Ploughahare, coalter, dc mould board. 1 21 4 266 Holt, William. Ploughahare, coalter, dc mould board. 1 21 4 266 Holt, William. Ploughahare, coalter, dc mould board. 1 21 21 21 22 23 23 23				
Holmes, William		Hatches, preventing leaking	7	170
Holmes, William	Holmes, Samuel L	Water power, increasing by atmos-		
Holmes, William	TT 1 TTT'11'	pheric pressure	11	229
Holmes, William	Holmes, William	Auger, twisted screw, for boring guns,	44	oor
Holmes, John, and A. West.	Walman William			
Holmes, Richard C., and Jonathan J. Springer				
Steering wheels		Limboon	~~	331
Hoft, Horace		Steering wheels	7	178
Holt, William				
Holt, Zebediah				
Holton, Elisha			-	
Holton, Elisha. Grist mill, constructing. 13 254 Holton, Horace. Harness, horse collars. 16 297 Homan, Daniel Sifter, meal 13 260 Homer, Charles 8 Hoes, garden 1 12 Homer, Daniel Horse shoes for hoof-bound horses. 2 46 Homer, John W. Shot, screening table 19 337 Honeywell, Enoch Elevator, water 11 221 Honeywell, Israel. Winnowing grain. 1 34 Honney, Philip. Washing machine, revolving. 17 318 Hood, Andrew Gates and gateways 9 196 Hooker, George. Combs for the hair 21 350 Hooper, Blake & Richardson, assignees of William Blake. Girandoles, (design) 5 129 Hoover, Henry & Ezra Rake, hay, revolving 1 21 Hoover, John Window seath 9 201 Hopkins, Asa Wheels for wooden clocks 8 138 Hopkins, Henry Spinning mule, head 3 91 Hopkins, Lansing E Stoves, construction of four 13 Hopkins, Roawell Propaling boats by lever wheels 7 173 Hopkins, Samuel Mustard, preparation of four 13 259 Hopkins, William Constructing boats 5 139 Hopkins, William Constructing boats 7 169 Hopkins, William A Constructing boats 5 139 Hopkins, William A Constructing boats 5 139 Hopkins, William A Constructing boats 5 139 Hopkins, William A Constructing boats 5 139 Hopkins, William A Constructing boats 5 139 Hopkins, William A Constructing boats 5 139 Hopkins, William A Constructing boats 5 139 Hopkins, William A Constructing boats 5 139 Hopkins, William A Constructing boats 5 139 Hopkins, Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Hopkins Samuel Hopkins Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel Hopkins Samuel	,		14	266
Homan, Daniel	Holton, Elisha		13	254
Homer, Charles 8.		Harness, horse collars		
Homer, Daniel.				
Homer, Jos				
Honey, John W Shot, screening table 19 337 Honeywell, Enoch Elevator, water 11 221 Honeywell, Israel Winnowing grain 1 34 Honney, Philip Washing machine, revolving 17 318 Hood, Andrew Gates and gateways 9 196 Hooker, George Winnowing flaxeed 1 34 Hooker, George Shot, screening table 9 196 Hook, Asa Winnowing grain 1 34 Hooker, George Washing machine, revolving 1 350 Hooper, Blake & Richardson, assignees of William Blake Simple for the hair 21 350 Hooper, Dummer H Boilers, steam, regulating height of water in 6 153 Hoover, Dummer H Hoover, Henry & Ezra Houser, Isaac Lathe, cooper's 1 21 Hoover, Isaac Lathe, cooper's 14 268 Hoopkins, Asa Shot, screening table 17 312 Hoover, Henry & Washing machine, revolving 1 34 Combs for the hair 21 350 Boilers, steam, regulating height of water in 6 153 Hoover, Henry & Ezra Cutting vegetables 17 312 Hoover, Isaac Lathe, cooper's 14 268 Hoover, John Window sash 9 201 Hopkins, George F Stoves, construction of 5 138 Hopkins, Jesse Spinning mule, head 3 91 Hopkins, Lansing E Boilers and furnace 6 151 Hopkins, Roswell Propalling boats by lever wheels 7 173 Hopkins, Samuel Mustard, preparation of flour 13 259 Hopkins, William . Mustard, preparation of flour 13 259 Hopkins, William . Mustard, preparation of flour 13 259 Hopkins, William . Cooking stove 5 138				
Honeywell, Enoch Elevator, water 11 221 Honeywell, Israel Winnowing grain 1 34 Honney, Philip Washing machine, revolving 17 318 Hook, Asa Winnowing flaxseed 1 34 Hooker, George Winnowing flaxseed 1 34 350 Hooker, George Winnowing flaxseed 1 34 350 Hooper, Blake & Richardson, assignees of William Blake Girandoles, (design) 5 129 Hooper, Dummer H Boilers, steam, regulating height of water in 6 153 Hoover, Henry & Ezra Hoover, Henry (assignee of Martin Stoner) Cutting vegetables 17 312 Hoover, Isaac Lathe, cooper's 14 268 Hopkins, George F Stoves, construction of 5 138 Hopkins, George F Stoves, construction of 5 138 Hopkins, Lansing E Rolling, vibratory, for cetton or wool 3 87 Hopkins, Lansing E Boilers and furnace 6 151 152 153				
Honeywell, Israel.				
Honney, Philip				
Hood, Andrew				
Hooker, George				
Hooker, George				
Hooper, Blake & Richardson, assignees of William Blake				
Boilers, steam, regulating height of water in 6 153	Hooper, Blake & Richardson, assignees			
Water in	of William Blake	Girandoles, (design)	5	129
Hopper & Doughty	Hooper, Dummer H	Boilers, steam, regulating height of		
Rake, hay, revolving			1	
Hoover, Henry, (assignee of Martin Stoner)	Hopper & Doughty		1	
Stoner Cutting vegetables 17 312		Rake, nay, revolving		31
Hoover, Isaac. Lathe, cooper's. 14 268 Hoover, John Window sash 9 201 Hopkins, Asa. Wheels for wooden clocks. 8 187 Hopkins, George F Stoves, construction of. 5 138 Hopkins, Jesse Rolling, vibratory, for cetton or wool. 3 87 Hopkins, John Lotion, magic. 4 110 Hopkins, Lansing E Boilers and furnace 6 151 Hopkins, Roswell. Propelling boats by lever wheels. 7 173 Hopkins, Samuel Mustard, preparation of flour. 13 259 Hopkins, William Whipper, cetton 3 259 Hopkins, William Cooking stove 5 139 139		Cutting wagetehles	17	210
Hoover, John				
Hopkins, Asa			1	
Hopkins, George F				
Hopkins, Henry				
Hopkins, Jesse		Spinning mule, head	3	16
Hopkins, John		Rolling, vibratory, for cetton or wool.	3	87
Hopkins, Lansing E	Hopkins, John	Lotion, magic	4	
Hopkins, Roswell. Propelling boats by lever wheels. 7 173 Hopkins, Samuel. Potash and pearlash, manufacturing. 4 114 Hopkins, Samuel. Mustard, preparation of flour. 13 259 Hopkins, William. Whipper, cotton. 3 359 Hopkins, William. Constructing boats. 7 169 Hopkins, William A. Cooking stove. 5 139	Hopkins, Lansing E	Boilers and furnace		
Hopkins, Samuel	riopkins, Lansing E	Bollers, steam, &c		
Hopkins, Samuel	Honking Samuel	Propelling boats by lever wheels		
Hopkins, Samuel	Honking Samuel	Mustard properties of four		
Hopkins, William Whipper, cotton 3 95 Hopkins, William Constructing boats 7 169 Hopkins, William Cooking stove 5 139	Honking Samuel	Mustard proparation of flour		
Hopkins, William A	Hopking William	Whinner cotton		
Hopkins, William A	Hopkins, William	Constructing boats		
Hopkins, William R Barometer 8 183	Hopkins, William A.	Cooking stove		
	Hopkins, William R.	Barometer		

. PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Hopkins, William W	Window sash, hanging	9	201
Hopkins & Pratt	Harrow, self-sharpening	1	1
Hopkinson, John	Harness, horse collars	16	25
Hopper, Samuel.	Water wheel		23
Hopper, Thomas	Straw outler	1	2
Horbart, Robert E.	Shoes, horse	2	-
Hord, Thomas.	Salt, manufacturing,	4	냁
Hord & Browning	Flour, preserving	13	22
Horn, Abraham	Pumps.	11 5	13
Horn, Benjamin H.	Lamps, lard	11	293
Horn, David	Lamps	5	191
Horn, Edwin B	Lamps, self-supplying	5	133
Horn, Elias.	Hulling clover seed	ĭ	13
Hornback, Simon	Sickles, files, &c., cutting	2	60
Horst, Charles	Piano forte, æolian attachment, &c	18	326
Hort, Benjamin S	Thrashing machine	1	23
Hort, Benjamin S	Gate, flood	11	222
Hort, Benjamin S	Screening coal	5	135
Hort, Elias B	Thrashing machine	1	29
Horton, Eben	Washing machine	17	316
Horton, Eli.	Loom, power, treadle in	3	81
Horton, Elias L	Pistons, steam engines, for	6	154
Horton, Elias L	Boilers, steam	6	151
Horton, John	Balance, platform	18	239
Horton, William B	Spade, pronged	2	60
Hortsman, William H.	Harness nets, fly, for horses	16	297
Hosford, William, jr.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Power, machine	13 17	259 316
Hosford & Kelsey	Washing machine and press	17	317
Hoakins, Shubael	Hats, military	3	78
Hoskings, Thomas K.	Mortising timber	14	271
Hoskins, Thomas H.	Seeding, corn planters	i	22
Hosmer, Arnold	Carriage bodies, hanging	10	903
Hosmer, Isaac, and Wm. P. L. Badger.	Staves, cutting	14	280
Hotchkin, Ashley	Stove, cooking	5	141
Hotchkiss, Eliha.	Thrashing and fanning machine	1	.28
Hotchkiss, Elihu	Straw cutter	1	25
Hotchkisa, Elihu	Straw cutter	1	25
Hotchkiss, Gideon	Thrashing machine	1	31
Hotchkiss, Gideon.	Yoke, horse and oxen	1	36
Hotchkiss, Gideon	Grist mill	13	253
Hotchkiss, Gideon	Propelling boats, &c	.7	172
Hotchkiss, Gideon	Water wheel, reacting	11	233
Hotchkiss, Gideon	Water wheel, reacting	11	234 161
Hotchkiss, J. G.	Steam engine, rotary, reacting Locks, mortise, and latch	2	50
Hotchkiss, John G., J. A. Davenport,	Locas, morase, and man.,,	~	
and John W. Quincy	Knob, door, glass attaching	2	48
Hotchkiss, John G., J. A. Davenport,	amond moord British Waterstram Park 11111111	- 1	~
and John W. Quincy, not Hotchkins.	Knobs of clay	15	289
Iotchkiss, Josiah	Washing machine	17	314
dotchkiss, Lewis and Willis Hotchkiss.	Latch knob for doors	2	48
Hotchkim & Garnsay	Hooks, by which bits may be attached	- 1	
. 1	to bridles,,,	16	298
Hotchkiss & Jaque	Shearing cloth	3	68
ioun, Hiram.	Winnowing clover seed,	1	34
Hottman, David	Knobs, door, drawer, commode	2	48
lottenstein, William	Harness, horse collars.	16	297
	Medicine cure for cholene	4	111
Louck, Jacob	Medicine, cure for cholera,,,,,		
Jouck, Jacob	Panacea	4	113
louck, Jacob	Razor strap		

Howe, Elias				
Houghton, John	PATENTING.	INVENTIONS OR DISCOURAGE.	CLASS.	PAGE.
Houghton John Store, cooking, Franklin 5 14	Houghton, Joel.	Plough beams	1	*
Houghton, Luther		Stove, cooking, Franklin		
Houghton Renhen 5 14 Houghton Thomes, and Jahn F. Wallace Lamps, lard 5 Hough John Hydrostatic cotton press 11 22 Houpt, Sebastian Hulling machine 1 1 22 House, Royal E Magnetic letter printing telegraph 8 House, Royal E Magnetic letter printing telegraph 8 House, Royal E Magnetic letter printing telegraph 8 Houston, John Hulling machine 2 4 Houston, John Houston John Heave, saving 14 28 Houston John Heave, saving 14 28 Houston John Himmon, and J. lagraham Houston Samusel 1 38 Houston Batohelder Shaving leather 16 30 Hovey, Eleazer Shearing cloth 3 3 Hovey, Eleazer Shearing cloth 3 3 Hovey, William Straw entter 1 2 Hovey, William Washing machine for grinding 2 6 Hovey, William Shearing cloth 3 8 Hovey, William Shearing cloth 3 8 Howard Charles Plough 1 1 Howard Charles Plough 1 1 Howard Charles Plough 1 1 Howard Horace Water wheel and paddle 11 23 Howard Horace Water wheel and paddle 11 23 Howard Horace Water wheel and paddle 11 23 Howard Horace Water wheel horizontal 11 23 Howard Horton Medicine, compound tincture of myrrh Howard Horton Medicine, compound tincture of myrrh Howard Horton Medicine, astringent toxic 4 11 Howard Horton Medicine, bitter, tonic 4 11 Howard Horton Medicine, bitter, tonic 4 11 Howard Horton Medicine, bitter, tonic 4 11 Howard Horton Medicine, compound tincture of myrrh Howard Horton Medicine, bitter, tonic 4 11 Howard Horton Medicine, bitter, tonic 4 11 Howard Horton Medicine, bitter, tonic 4 11 Howard Horton Medicine, bitter, tonic 4 11 Howard Horton Medicine, colong and baking 5 18 Howard Horton Medicine, colong and baking 5 18 Howard Horton Houst Houst Houst				
Houghton, Thomes, and Jahn F. Wallace Lamps, lard. 5 13 Houpt, John 1 1 1 1 1 1 1 1 1	0		12 1	
Houpt, John			_	
House, Royal E.	Houpt, John	Hydrostatic cotton press		
House, Royal E				
Houston, John		Magnetic letter printing telegraph	=	
Houston, John				
Houston & Batcholder. Shaving leather 16 30	Houston, John	Hone, metallic		
Houston & Hatchelder	Houston, J., A. Hinman, and J. Ingraham			
Hovey, Eleazer Shearing cloth 3 6	Houston & Batchelder		_ =	
Hovey, William				
Hovey, William.				
Hovey, William	Hovey, William			
Howard Charles Plough 1 1 23 Howard Charles Plough 1 1 23 Howard Dean 2 Boost and shoes, manufacturing 1 29 Howard Dean 2 Water wheel, overshot, backet for 1 23 Howard Horace Water wheel, horizontal 1 23 Howard Horace Water wheel, horizontal 1 23 Howard Horton Medicine, compound tincture of myrrh 1 1 Howard Horton Medicine, astringent toaic 4 11 Howard Horton Medicine, astringent toaic 4 11 Howard Horton Medicine, astringent toaic 4 11 Howard John C Grates, siding 5 13 Howard Samuel Towing boats on canals 7 17 Howard William Steam engine, locamotive 6 15 Howard William Car, railroad and wagon 10 20 Howard William Car, railroad and wagon 10 20 Howard Samuel E	Hovey, William			
Howard Charles Plough 1 1 23 Howard Charles Plough 1 1 23 Howard Dean 2 Boost and shoes, manufacturing 1 29 Howard Dean 2 Water wheel, overshot, backet for 1 23 Howard Horace Water wheel, horizontal 1 23 Howard Horace Water wheel, horizontal 1 23 Howard Horton Medicine, compound tincture of myrrh 1 1 Howard Horton Medicine, astringent toaic 4 11 Howard Horton Medicine, astringent toaic 4 11 Howard Horton Medicine, astringent toaic 4 11 Howard John C Grates, siding 5 13 Howard Samuel Towing boats on canals 7 17 Howard William Steam engine, locamotive 6 15 Howard William Car, railroad and wagon 10 20 Howard William Car, railroad and wagon 10 20 Howard Samuel E	Hovey, William			
Howard Charles Plough 1 1 1 1 1 1 1 1 29 1 1 1 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 1 29 1 1 1 1 29 1 1 1 1 1 1 1 1 1	Hovey, William	Shearing cloth		
Heward Dean S		Water wheel and paddle		
Howard Dean S	Howard, Dean A	Boots and shoes, manufacturing		
Howard, Edward.				
Howard, Horace Lamps, lard 5 Howard, Horton Medicine, compound tincture of myrrh Medicine, diaphoretic, or sweating powders 4 Howard, Horton Medicine, astringent tonic 4 Howard, Horton Medicine, astringent tonic 4 Howard, John C Grates, sliding 5 Howard, John C Grates, sliding 6 Howard, John C Grates, sliding 7 Howard, Lewis and Charles 5 Howard, Samuel Towing boats on canals 7 Howard, Sebre Kiln, drying corn 5 Howard, William Steam engine, locomotive 6 Howard, William Car, railroad and wagon 10 Howard, William Railroad switches 9 Howard & Butters 9 Howard & Haywood Corn 12 Howard & Haywood 10 Howard & Haywood 10 Howard & Haywood 10 Howard & Samuel B Chur 11 Howard, Samuel B Water weel 11 Howe, Abraham, and Sidney S. Grannis Howe, Elias present the loom 11 Howe, George S Stove 14 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howe, Jacob Moop heads 17 Howed, Jacob Moop heads 17 Howe,	Howard, Edward	Smut machine	_ =	
Heward, Horton	Howard, Horace		_	
Howard, Horton		Medicine compound tincture of myrrh		
Dowders				
Howard, Horton		powders	4	
Howard, Horton Medicine, bitter, tonic. 4 Howard, John C. Grates, sliding. 5 Howard, John C. Stump, extracting. 9 Howard, Samuel Towing boats on canals. 7 Howard, Sebre. Kiln, drying com. 5 Howard, William. Steam engine, locamotive. 6 Howard, William. Car, railroad and wagon. 10 Howard, William. Car, railroad and wagon. 10 Howard, William B. Loom, vibrating, cam. 3 Howard & Butters. 9 Howard & Haywood. Lotteries, drawing leather 16 Howd, Samuel B. Churn. 1 Howd, Samuel B. Churn. 1 Howd, Samuel B. Churn. 1 Howd, Samuel B. Churn. 1 Howd, Samuel B. Churn. 1 Howd, Samuel B. Churn. 1 Howe, Abraham, and Sidney S. Grannis Howe, Abraham, and Sidney S. Grannis Howe, Abraham, and Sidney S. Grannis Howe, Frederick W. Stove. 14 Howe, George S. Stove. 14 Howe, Henry. 1 Howe, Henry. 1 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 19 Howe, Jacob Mop heads. 19 Howe, Jacob Mop heads.				
Howard, John C				
Howard, Lewis and Charles Stump, extracting 7 Howard, Semuel 7 Howard, Semuel 7 Howard, Semuel 7 Howard, Send C 7 Howard, William 7 Howard, William 8 Howard, William 8 Howard, William 9 Howard, William 9 Howard, William 1 Howard, William 1 Howard, William 1 Howard & Buttara 1 Howard & Eagy 1 Howard & Haywood 1 Howard & Haywood 1 Howard & Haywood 1 Howard & Samuel B 1 Howd, Samuel B 1 Howd, Samuel B 1 Howe, Abraham, and Sidney S. Grannis Howe, Abraham, and Sidney S. Grannis Howe, Abraham, and Sidney S. Grannis Howe, Abraham, and Sidney S. Grannis Howe, George S 1 Howe, George S 1 Howe, George S 1 Howe, Henry 1 Howe, Jacob Mop heads 1 Howe, Jacob Mop heads 1 Howe, Jacob Mop heads 1 Howe, Jacob Mop heads 1 Howe, Jacob Mop heads 1 Howe, Jacob Mop heads 1 Fireplace, cooking and baking 3 Stump, extracting 3 Towing boats on canals 7 7 17 7 7 18 19 10 20 11 11 20 11 20 20 20 11 20 20 20 11 20 20 20 11 20 20 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20				130
Howard, Samuel		Fireplace, cooking and baking		
Howard, Sebre				
Howard, S. and C. Steam engine, locamotive. 6 Howard, William. 5 Howard, William. 6 Howard, William. 7 Howard, William. 7 Howard, William. 8 Howard & Butters. 8 Howard & Haywood. 16 Howard & Haywood. 17 Howd, Samuel B. 7 Howd, Samuel B. 7 Howd, Samuel B. 7 Howd, Samuel B. 7 Howd, Samuel B. 7 Howd, Samuel B. 7 Howd, Samuel B. 8 Howe, Abraham, and Sidney S. Grannis Howe, Abraham, and Sidney S. Grannis Howe, Elias. 17 Howe, Elias. 17 Howe, George S. 17 Howe, George S. 17 Howe, Henry. 19 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howe, Jacob Mop heads. 17 Howard, William. 10 Howard, William				
Howard, William	Howard, S. and C.			
Howard, William	Howard, William			
Howard, William H. Loom, vibrating, cam. 3 85 Howard & Buttera. 16 30! Howard & Flagg. Thrashing machine, called the Sidney 1 31. Howd, Samuel B. Lotteries, drawing 17 Howd, Samuel B. Water weel. 11 Howd, Samuel B. Water weel. 11 Howd, Samuel B. Water weel. 11 Howe, Abraham, and Sidney S. Grannis Howe, Elias Mattresses, palm leaf 38 Howe, Frederick W. Cloth, machine for measuring on the loom 38 Howe, George S. Stove. 5 Howe, Henry 5 Howe, Jacob Mop heads 17 Howd, Jacob Mop heads 17 Seligible stricts a strict of the stricts of the str	Howard William			
Howard & Buttera. Howard & Flagg	Howard. William.			
Howard & Haywood	Howard, William H.		3	
Howd, Samuel B		Splitting leather		
Howd, Samuel B		Threshing machine, called the Sidney	_	
Howd, Samuel B				
Howd, Samuel B	Howd, Samuel B	Propeller, &c.	7	
Howe, Abraham, and Sidney S. Grannis Loom harness, wire heddless 3 3 8 17 3 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Howd, Samuel B	Water weel		
Howe, Abraham, and Sidney S. Grannis Howe, Elias. Howe, Elias, jr. Howe, Frederick W	Howe Abraham and Sidney S Grannie	Loom harness wire heddles		
Howe, Elias	Howe, Abraham, and Sidney S. Grannis	Loom harness, wire heddles	_	
Howe, George S.————————————————————————————————————	Howe, Elias	Mattresses, palm.leaf		31:
Howe, George S				8
Howe, George S. Stove	MANUAC, P. TENELICK AA			R
Howe, Henry	Howe, George S.			
Howe, Jacob Mop heads	Howe, Henry.	Paper drying	3	
	Howe, H. P	Paper, cylinders for drying		
	Hewe. Joel.	Hammer, hatchet	2	

PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Howe, John	Forge, or heating wind of the black-		
•	smith's fires	2	43
Howe, John	Brick press	15	286
Howe, John J	Wire machine	99.0	64 mitted
Howe, John J*	Pins, sticking into paper	22 0	55
Howe, John J	Pins, manufacturing	2	55
Howe, John T	Cement, water, paint, or varnish	$\tilde{4}$	102
Howe, Martin	Auger	14	265
Howe, Nehemiah	Churn	1	5
Howe, Thomas	Measuring and outting leather	16	296
Howe Timothy	Thrashing machine	1	29
Howe. Tyler	Saw, circular, revolving	14	273
Howe, Tyler	Boots, crimping	16	291
Howe, William	Distilling, vapor condenser	4	107
Howe, William	Bridges, truss frames	9	192 192
Howe, William	Bridges, truss frames	.9	192
Howe, William Howe, William	Bridges, truss frames	5	133
How, Brewster, & Johnston	Oil, flax seed	4	119
Howe & Chaffin	Shingle machine	14	279
Howe & Lankester	Stoves, open	5	146
Howe & McCollum	Washing machine	17	316
Howland & Griswold	Paper for walls	3	86
Howlett Benjamin	Bed bug, destroying by steam	17	307
Howlet, J. W., and F. M. Walker Howlet, J. W., and F. M. Walker	Process, wheat flouring	4	118
Howlet, J. W., and F. M. Walker	Smut machine	13	260
Howlett, John W	reathers, dressing, &c	17	312
Howlett, Jonathan	Straw cutter	1	269
Howell, A. P	Laths, machinery for manufacturing.	14 2	44
Howell, Benjamin B	Furnace, iron	2	47
Howell, B. B	Furnaces, steam, for anthracite	5	129
Howell, Daniel, (assignee of Walter	rumaces, steam, for anumaces		
Buchanan	Tanning	16	302
Howell, Francis B	Paper cutting machine	3	85
Howells, Henry C	Locks and bolts	2	49
Howell, James	Wire rolling	2	64
Howell, Richard.	Suspenders, manufacturing	21	353
Howell, Samuel E	Constructing ships	7	169
Howell, Thomas D	Bee protectors	1	265
Hoxie, Christopher			28
Hoxie, Christopher			265
Hoxie, Christopher Hoxie, Christopher	Cooking stove, &c		138
Hoxie, Christopher	Hulling rice		14
Hoxie, Christopher	Architecture, naval	_	167
Hoxie, Christopher	Corn sheller		8
Høyt, George A.	Seeding seed, sowing, drill for	1	23
		2	61
	Diget' Leadiatible	4	118
Hoyt, Benjamin E	Steel, revolving		
Hoyt, Benjamin E Hoyt, Comfort, jr Hoyt, Philo W	Sumach manufacturing Lock, gun	19	335
Hoyt, Benjamin E	Sumach manufacturing Lock, gun Corn sheller	19 1	8
Hoyt, Benjamin E	Sumach manufacturingLock, gun Corn shellerShoemakers, clamp for	19 1 16	300
Hoyt, Benjamin E Hoyt, Comfort, jr Hoyt, Philo W Hoyt, Rodney Hoyt, Thomas R Hoyt, William.	Sumach manufacturing Lock, gun Corn sheller Shoemakers, clamp for Thrashing machine	19 1 16 1	300 29
Hoyt, Benjamin E. Hoyt, Comfort, jr. Hoyt, Philo W. Hoyt, Rodney. Hoyt, Thomas R. Hoyt, William.	Sumach manufacturing Lock, gun Corn sheller Shoemakers, clamp for Thrashing machine	19 1 16 1 2	300 29 40
Hoyt, Benjamin E. Hoyt, Comfort, jr. Hoyt, Philo W. Hoyt, Rodney. Hoyt, Thomas R. Hoyt, William.	Sumach manufacturing Lock, gun Corn sheller Shoemakers, clamp for Thrashing machine	19 1 16 1 2	300 29 40 8
Hoyt, Benjamin E. Hoyt, Comfort, jr. Hoyt, Philo W. Hoyt, Rodney Hoyt, Thomas R. Hoyt, William. Hoyt, William. Hoyt, William.	Sumach manufacturing Lock, gun Corn sheller Shoemakers, clamp for Thrashing machine Bells. Corn sheller.	19 1 16 1 2 1	8 300 29 40 8 240
Hoyt, Benjamin E. Hoyt, Comfort, jr. Hoyt, Philo W. Hoyt, Rodney Hoyt, Thomas R. Hoyt, William Hoyt, William	Sumach manufacturing Lock, gun Corn sheller Shoemakers, clamp for Thrashing machine Bells. Corn sheller.	19 1 16 1 2 1	300 29 40 8
Hoyt, Benjamin E. Hoyt, Comfort, jr. Hoyt, Philo W. Hoyt, Rodney Hoyt, Thomas R. Hoyt, William Hoyt, William Hoyt, William	Sumach manufacturing Lock, gun Corn sheller Shoemakers, clamp for Thrashing machine Bells. Corn sheller.	19 1 16 1 2 1	8 300 29 40 8 240
Hoyt, Benjamin E. Hoyt, Comfort, jr. Hoyt, Philo W. Hoyt, Rodney Hoyt, Thomas R. Hoyt, William Hoyt, William Hoyt, William	Sumach manufacturing Lock, gun Corn sheller Shoemakers, clamp for Thrashing machine Bells. Corn sheller.	19 1 16 1 2 1	8 300 29 40 8 940 126 9 46
Hoyt, Benjamin E. Hoyt, Comfort, jr. Hoyt, Philo W. Hoyt, Rodney. Hoyt, Thomas R. Hoyt, William.	Sumach manufacturing Lock, gun Lock, gun Corn sheller Shoemakers, clamp for Thrashing machine. Bells. Corn sheller Jack screw for raising wagons. Fireplace. Corn sheller Hinges, &c. Blowing and striking, mode of.	19 1 16 1 2 1 12 5 1	8 300 29 40 8 940 126 9

^{*} Howe, John J., Derby, Con., Patented Feb. 94, 1843.

		Ī	
PATRIMPRIM.	mventions or discoveries.	CLASS.	PAGE
Hubball, Ebenezer, (assignee of Joseph			
Martin	Cocks, hydrant	11	220
Hubbal, Ephraim	Dye woods, rasping and grinding	14	268
Hubbel, Ephraim	Water wheel	11	229
Hubbell, Horatio	PropellerSteam, generating	6	172 162
Hubbel, Horatio	Coal, anthracite, cracking	5	125
Hubbell, Moses, assignee of R. Hubbell.	Boring timber	14	266
Hubbell, William	Fire arms	19	334
Hubba, Dana	Laths, cutting	14	269
Hubbard, Asahel	Engine, hydraulic, revolving	11	221
Hubbard, Harvey	Stoves, furnace	5	145 14
Hubbard, Henry	Hulling cotton seed	1	8
Hubbard, Jer	Fur, cutting	3	74
Hubbard, Jer	Loom, domestic	3	80
Hubbard, J. M	Beehive	1	3
Hubbard, Jesse,	Mill spindle, oiling and protecting	13	257
Hubbard, Joab H	Washing machine	17	317
Hubbard, Noadjah W	Water wheel, current	11	232 62
Hubbard, Oliver	Tin ware, manufacturing Lamps, lighting	2 5	133
Hubbard & Graves	Cultivator	ĭ	10
Huckabby, Brittain	Wheel, running gear for mills	13	261
Huffman, Moses	Plough, bar-share	1	19
Hughes, Enos B. M.	Grates, revolving and shifting	5	130
Hughes, Humphrey L	Pump	11	225
Hughes, Joseph V	Car, railroad	10	206 131
Hughson, John	Kiln, for drying grain	5 7	169
Hugus, Jacob	Canal, steamboat	4	105
Hugus, Jacob	Wine, from cider	1 4	119
Hugus, James	Carding, for gleaning savers	3	68
Huling, George	Saw mill, circular	14	275
Hull, A. A.	Straw cutter	1 20	27
Hull, A. S., administrator of J. Gray	Pode environ elevating and depressing	20	345
Hull, Alonzo G	Beds, spring, elevating and depressing surface	17	307
Hull, Alonzo G	Planing machine	14	272
Hull, Alonzo G	Wrench, screw	2	64
Hull, A. G	Truss, &c	20	344
Hull, A. G	Truss, veriocele	20	345
Hull, Amos G	Truss	30	343 134
Hull, David	Ovens, portable, bake	5 14	271
Hull, James	Pegs or pins, pointing	i	iŝ
Hull & Critcherson	Stone, facing and dressing	15	290
Hulme, David	Propelling wheels for steamboats	7	176
Humbard & Downs	Bark mill	13	249
Humes, John	Excavating canals	.9	195
Hummel Jacob F	Water wheel, cast iron, and sluice	11	232 118
Hummel, Jacob F	Varnish, gum elastic	1	5
Humphrey, John	Veneers, cutting	14	282
Humphreys, John	Carpeting and rugs		69
Hamphrys, Robert	Corn sheller, &c	1	9
Humphrey, Rufus	Thrashing machine	1	30
Humphries, R. and J. C	Springs, carriage	10	210
Humphreys, William			94 307
Humphreyville & King	Raising water		227
Hungerford, J	Truss for hernia	20	344
Hungerford, Newell	Springs, carriage	10	210
Hunn, Anthony	Navigation, improvement in	7	171

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS	PAGE.
Hunn Anthony er	Medicine, cure for ekolera	4	181
Hunn, Anthony, sr	Molasses, drawing apparatus		201
Hunsicker, Daniel	Hulling clover seed	i	13
Hunsicker & Krauss	Boilers, steam; feeding	6	199
Hunt, Charles	Grates	5	199
Hunt, Daniel	Mortar, machine for making	15	289
Hunt, David W	Raising water to set machinery in mo-		200
Thurs Course	tion	11	22
Hunt, George	Wheel hubs, attaching to axles	10	214 22
Hunt, Hiram	Rake, revolving horse	7	175
Hunt, James Y	Propelling, sculling boats by steam	i	F
Hunt, John	FloughLathe, turning	14	263
Hunt, John	Chimneys, sweeping	5	195
Hunt, Jonathan	Pump, oblique	11	997
Hunt, Joseph S. L	Planing machine	14	272
Hunt, Marshal J	Plough, cultivating	ī	90
Hunt, Nathan and Caleb	Lock, door, latches	2	49
Hunt, Philo	Washing machine	17	317
Hunt, Ralph	Dowelling, headings for coopers	14	267
Hunt, Richard	Shingles and staves, siding laths	-14	200
Hunt, Russell, 2d	Wheels, tiring	10	215
Hunt, Salmon, administrator of Salmon	G		241
Hunt. Same on	Cannon, wrought iron	19	333 210
Hunt, Sermon	Sleigh shoes, steel plated	10	116
Hunt, Timothy	Salt water, purifying	7	174
Hunt, Walter	Propelling, paddle wheels, steambeat.	5	145
Hunt, Walter	Stoves, globe, or radiator	21	353
Hunt, Walter	Twisting, self-supplying machine	3	95
Hunt, Walter	Nails, making	2	52
Humt, Walter	Saw for felling trees	14	273
Hunt, Walter	Castor, globe	2	40
Hunt, Walter	Knife-sharpener and domestic guard	8	47
Hunt, Walter	Alarm for coaches	19	365
Hunt and Brown	Link, self-separating, for connecting		-
Hunt and Bradish	Cars	10	209
Hunt and Haskins	Spinning machine	3	90 89
Hunt and Townsend	Spinning flax and hemp	7	170
Hunt and Wheeler	Spinning machine, horizontal	3	91
Hunt and White	Wheels	10	212
Huntley, Hosea	Stove, cooking	5	141
Hunter, David	Spinning, ring spinner	3	91
Hunter, George	Salt, manufacturing	4	115
Hunter, Isaac, jr	Cheese, curd cutter	1	4
Hunter, J. W., M. L. Hunt, and S.	777	. 1	47
Holman	Winnowing machine, fanning mill	1	35
Hunter, Jac. Van Reed	Furnace, smeking iron	2	44
Hunter, William T. Hunter, Wm. W., & Benj. Harris	Ovens, perpetual	5	134 177
Hunter, William W	Navigation, steam propelling	• 1	111
	denser	7	171
Hunting, Mason	Paner making ton mass roller for	3	86
fluntington, Elisha M., administrator of	• • • • • • • • • • • • • • • • • • •		
J. W. Lane	Pontoon equipage	19	336
Huntington, John	Metallic cores for pipe boxes	2	50
Hard, Joseph	Sugar, cleansing	4	117
Hurd, Joseph	Chimney caps, &c	5	124
Hurd, Joseph	Cloth, drving	3 4	69
Hurd, Joseph, jr	Sugar, manufacturing from beets	4	117
Hurd Joseph in	Furnaces, with reflectors	5	129
Hurd, Joseph, jr	Chimney, apparatus to prevent smok'g	5	124 1 39
Hurd, Joseph, jr	COOPINE STOAG	<i>U</i>	133

PATENTUS	ENVENTIONS OR DISCOVERISS.	CLASS.	PAGE.
Hurd, Jos., jr	Boiler, constructing	5	123
Mard, J., jr	Ovens with reflectors	5	135
Hard, J., jr.	Steves and fireplace	5	145
Hard, Merritt	Shearing nap from woollen cloth	.3	88
Ford, Merritt	Bark, grinding	13	249
Hard, Merritt	Dye woods, cutting	13 14	249 267
Hard, Orlando	Thrashing machine	1	31
Murd and Fox	Napping cloth	3.	84
Mardle, Noble	Window catch, rule joint for	2	63
Harlbutt, Daniel	Spinning wheel	3	93
Murlbut, Ovando	Trees pads	20	344
Harlbut, Stephen	Hats, bodies, bats	3	76
Murlbut, Stephen	Hats, hardening them on a cone	3	77
Ffuribut, Etheridge and Combs	Thrashing and breaking flax, &c	1	27
Hurst, Abraham	Smut machine, and garlie	1	25
Muse, Enoch	Tobacco, renovating	4	118
Huse, Samuel	Engine, fire, working the lever Brand for flour barrels	11 2	221 40
Hutchings, Thomas	Hydraulic machine	11	223
Mutchinson, Benjamin	Knitting stockings machine	3	79
Hutchinson, Benjamin	Bobbin, tube	3	67
Hutchinson, Enoch	Galley, ships, distilling salt water	. 5	129
Hutchinson, James	Washing machine	17	317
Ffatchinson, Jesse, jr	Cooking stove	5.	140
Hutter, Chris. H	Brandy, manufac'g, all kinds of grain	4	100
Hatton, Walter M.	Tonguing, growing, de	14	281
Mutton and Fairman	Engraving.	18	322
Muzzey, Benjamin	Seeding, planting, plough	1.	23
Huzzey, Obed	Cutting grain	1.	11 153
Hyatt, Thaddous	Boilers, steam supplying	. 22	359
Hyde, Douglas	Pen, fountain	18.	324
Hyde, Edward C	Railroad and wheels	9	199
Hyde, James	Straw cutter	. ĭ.	26
Hyde, James	Thrasking and cleaning machine	1	27
Hyde, James	Thrashing machine	. 1	29
Hyde, Joseph A., assignes of Major H.		!	
Fisher	Files, cutting	2	42
Hyde, Reaben	Pales for fensing	14	271
Myde, Samuel	Grist mill	13	953 397
Hyde, Silas	Axes, oval.	17 2	39
Hyde, Stephen	Axes, oval	2	. 39
227 40, 200 p. 2011 1111 1111 1111 1111 1111 1111 111	1	. ~	
Roa, Wm., (assignee of Casper Kittinger)	Vencering curved surfaces	14	282
Re: Nathan	Plough, wire grass & wheel cultivator	i	21
Idler, Jacob	Cetton, separating trash from	3	71
Felter, Jacob	Gin, cotton, saw oylinder	. 3	76
Idler, Jacob	Engine	11	221
Mer, Jacob	Press, cotton	12	242
Regett, John	Roofing houses, machinery for bend-	.	
** . * *	ing metal plates	. 9	200
Igget, John	Cooking stove, portable	. 5	144
Index Downel	Discilling suiting	` , }	
Maley, Daniel		4	105
Ingalis, Elias T.		10	907 296
Ingalis, Elkanah	Grates and stoves, parlor and kitchen.	16 5	130
Ingalis, Elkanah	Stoves and grates	5	145
Ingalls, Elkanah	Boiler, steam, improvement in	6	152
Ingalls, Joseph	Fireplace, sheet iron	5	127
Ingalis, Walter	Wind wheel, horizontal	11	235

patentees.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
ngersoll, Erastus	Cutting grass	1	1
ngersoll, Thomas	Thrashing machine	1	1
ngham, John	Steam engine, rotary, reacting	6	16
ngham, Joseph	Window sash	9	26
ngham, Samuel D	Canal, navigation by boats	7	10
ngham and Davis	Steam engine, rotary, screw, endless	6	16
rick, Thomas A	Brick press	15	26
rvin, David		16	21
vin, Robert	Ice steamboat	7	17
win, Hazel		12	24
win, John	Spinning spindle, &c	3	9
	Propelling boats, horse power	7	17
nacs, Moses		13	26
saacs, Moses		5	12
Bacs, Moses		ıĭ	23
sacs, Moses		7	17
aacs, N. P., and Jas. Raisbeck	Ships' anchors		25
aacs and Wilbank		13	
bell, Harlow		2	4
ibell, Harlow		2	4
bel, Miladen M	Window blind fasteners	2	6
bister, Caleb	Nail cutting machine, feeder for	2	5
enring, Johan B., (see Langenheim, F.))		
ham, Henry	. Tailors' measures	21	35
ham, Henry	Locks for safes, &c	2	50
mard, Maxímin	Gas engines	6	164
nard, Maximin		9	193
vers and Berg	Bolts, copper, &c	2	40
res, Fitch		11	234
ves, Ira		3	74
res, Ira		١ ١	
,	&c	21	349
7es, Ira	Buttons, hold-fast while polishing	21	349
7es, Ira			-
, 1.11.	moulds	21	349
res, Ira	Buttons, smoothing and rounding the		
,, 114	eye of metal	21	349
rea Inc	Combs, manufacturing hair	21	350
708, Ira		5	147
/es, Ira	Tinder box	8	184
/es, Ira	Clocks, time-striking part		186
/es, Ira	Pinions	8	999
/es, Ira		11	
7es, James	Locks for carriage, and other doors	2	49 104
res, Joseph		8	184
res, Joseph S		21	350
res, James S		8	186
res, Joseph S	Spring for clocks	8	186
es, Jos. Shaler		18	326
es, J. Shaler	. Metallic reeds, method of tuning	18	323
res, Joseph		8	184
res, Joseph	.! Clocks	8	183
res, Joseph	Pinions, rolling and pinion wheels for	_	
	clocks	8	186
res, Jos	Grist mill	13	252
res. John	Clock cases	8	183
res, John B	Blasting rocks, cartridges for	9	191
res, L. C., assignee of W. L. Ormsby.	Impressions upon metal (design)	18	323
ves, Richard A	Combs, metallic	21	350
ves, Richard A	Combe, metallic	21	350
ves, Richard A	Combs, metallic	21	350
ves, Shaler		3	89
ves and Hill		10	210
ves and Walters			
· · · · · · · · · · · · · · · · · · ·	riege hodies to them	10	210
	riage bodies to them	10	

PATENTESS. IMPENTIONS OF DISCOVERISA. CLAS	B. PAGE.
Jacan, Charles H. L Spectacles, preparing the glasses 8	186
Jackman, William Washing machine 17	314
Jackman, William	129
Jackson, T. D., (assignee of A. Judson). Bells, improvement in note:	40
Jackson, Samuel	7
Jackson, C. T.—see Morton, W. T. G.	·
Jackson, William Fur, cutting from peltry	74
Jackson, William Fur, pulling from peltry 3	75
Jackson, William Pencil case, ever-pointed 18	324
Jackson, William Stove, design for 5	137
Jackson, William Stove, cooking, design for 5	142
Jackson, Edwin W Power, graduating the velocity of	0.00
moving bodies	259
Jackson, Reuben Stoves, cooking with double fireplaces 5	143
Jackson, James	353
Jackson, Thomas Boats, towing on canals	168
Jackson, Thomas	174
Jackson, Bernard Cutting wheat	11
Jackson, Cyrus	265 42
	105
Jackson, Amos	241
Jackson, Robert	80
Jackson, G. W.—see Oliver, C. F.	"
Jackson, Potter and Miller Spinning, spindle, rotary & stationary 3	93
Jackson and Speed Mortising and tenoning 14	270
Jacks, William S Bellows, triangular, for foundries 11	219
Jacobs, Ruel Sawing boards 14	277
Jacobs, Nathan Stone, dressing 15	290
Jacobs, William L Pumps	225
Jacobs, Leonard Tanning 16	301
Jacobs, Leonard	301
Jacobs, James Plough 1	17
Jacobs, James	17
Jacob, Justin Pendulum motion, for machinery 13	259
Jacobs, Clark	15
Jacot, Charles Edward Watches, &c., improvem't in the construction of the escapement wheel,	1
&c 8	187
Jacques, Eliphalet, jr Washing machine 17	315
Jaggar, Treadwell and Perry, (assignees	
of Ezra Ripley) Stove, ornamental, (design) 5	146
James, George Boats, life 7	168
James, George Salt, manufacturing 4	115
James, Henry B Smut machine 1	25
James, Aaron E Beehives 1	3
James, W. T Railroad, self-adjusting 9	198
James, William T Spark catcher 6	155
James, William T	136
James, William T Stoves, box, hearth 5	138
James, William T Files, cutting	42
James, Theodore J	76
James, Joseph	223
James, John, 3d Winnowing grain	34
James, Adrian	128 269
Jameson, Jacob	344
Janes, Walter	211
Janes, Walter Tire bending 11	211
Janes, Walter	211
Janes, Walter Loom 3	79
Janes Walter 3	79
Janes, Walter Corn sheller 1	8
Janes, Walter Winding, spools and bobbins 3	95
37	

Patente rs .	INVENTIONS OR DISCOVERING	CLASS.	PAGE.
Janes, Walter	Loom, domestic and factory	3	84
Janes and Bolles	Loom, metallic, heddle for	3	81
	Boots, &c., tassels, &c., for	16	205
	Stoves	5	136
	Horses' ears, mode of setting	2]	350
	Stoves, anthracite coal	.5	139
	Reeding and fluting, straight & spiral.	14	273
	Horse power, portable	13	251
	Press, cotton and hay	12	243
	Tailors' shears	20	354
	Medicine for scrofula, &c	14	111
	Shingles and clapboards, sawing	14 2	278
	Window blinds, fastener	20	63 344
	Truss for hernia	19	334
	Crimping leather	16	295
Jarves, D., and New England Glass Com-	Ottoping reamer	10	250
	Lamp caps	5	132
	Glass, moulding, &c	15	288
	Glass, moulds for, &c	15	288
	Glass, moulds for making	15	288
	Glass furnaces	15	288
	Knobs, glass, manufacturing	2	48
	Knobs, glass, and screws, manufac'ng	2	48
	Lamps, glass chimneys	5	132
	Tubes, glass lamps	5	147
	Shingles and board shaving	14	279
	Boilers, steam engine	6	152
	Ventilating ships, &c	7	178
Jarvis, Russel	Wheels, carriage, preventing horses	i	
	from running away	10	213
	Dislocations, reducing, apparatus for.	20	342
Jayne, Zophar	Truss for hernia	20	344
	Stoves, cooking	5	140
Jeans, Abel	Kiln, lime	15	289
Jeffery, S. T —see Bliss, Leonard.			
Jeffery, Alfred	Cements for preparing masts, &c	4	101
Jelleffs, Joseph	Loom	3	.80
	Interest tables, circular	8	185
	Hats, blocking	3	76
	Silk, machine for moving	20	343
	Cloth, scouring	3	69
	Gin, cotton	3	75 75
	Knife sharpener	2	47
	Rivets, making	2	56
	Cables, chain	2	41
	Lamps	5	131
	Roller, toothed	ĭ	22
	Thrashing machine	î l	28
	Lamps	5	131
	Lamps	5	131
Jennings, Isaiah I	Lamps	5	131
Jennings, Isaiah I	Lamps, burning evaporable ingredients	5	132
Jennings, Isaiah I	Lamps, construction, economy of light	5	132
Jennings, Isaiah I	Lamps, tallow, &c	5	133
	Boilers, steam	6	152
	Steam engine	6	156
Jennings, Isaiah	Steam engine, high pressure, safety	6	158
Jennings, Isaiah S	Steam engine, rotary	6	160
Jennings, Isaiah S	Steam, generating	6	162
Jennings, Isaiah S	Steam, generating	6	162
Jennings, Isaiah I	Lamps, volatile ingredients, burning	5	1 3 3
		4	

PATENTRES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Jonnings, Isaiah	Light, producing by combination of		
Jennings, Isaiah	liquidsLight, producing by combination of	4	110
Jennings, Isaiah	liquids, to lamps without wicks Turpentine, spirits, extracting	4	110
Jennings, Isaiah	Thimbles for sail-makers	2	61
Jennings, Isaiah	Distilling spirits turpentine	4	105
Jennings, Isaiah	Composition for burning in lamps	4	102
Jennings, Isaiah	Lamps, burning volatile ingredients	5 4	132
Jennings, Isaiah	Alcohol from grain	11	219
Jennings, Isaiah	Pump, suction, and fire engines	ii	227
Jennings, Isaiah	Sofa, or sliding joint settee		313
Jennings, Isaiah	Washing machine	17	314
Jennings, Isaiah	Picture, with looking glass back ground Saw, hand	18	326 273
Jennings, Isaiah	Rifles, repeating	19	336
Jennings, Samuel K	Bath, portable, hot	20	342
Jennings, Samuel K.—see Stockton.	C. Alter	_	
Jennings, Joseph	Cooking apparatus	12	125
Jennings, Thomas Y	Packing machine	12	241
Jennison, Timothy L	Fementation, preparing and applying.		106
Jennison, William H	Filters for water	11	222
Jennison, William H., ass'nee of William	Fills	۱	
Kumbel	Filtering water	11 3	222
Jenkins, Gudley	Brads and sprig machine	2	40
Jenkins, Palmer.	Cooking apparatus	5	136
Jenkins, John W	Plough	1	16
Jenkins, Oliver	Drawers, improvement in	17	312
Jenkins, M	Saddles, ladies'	16	299 309
Jenkins, Mark W	Tanning	16 13	250
Jenks, Jacob	Stone cutters	15	290
Jenks, Eb	Boiler, setting	5	123
Jenks, Eb	Steel, converting iron partially into	2	61
Jenks, Eb	Card teeth, elastic steel fish-hooks, &c.	2 5	100
Jenks, Eb	Fireplace		126
Jenks, Ebenezer	Brick, fire, machine	15	285
Jenks, William	Fire arms	19	334
Jenk and Clewell	Loom, temple spring	3	82
Jenks and PeaseJenks and Dexter	Distilling, cylindrical heater	12	105
Jencks, Jas. H	Balance, eagle	4	240 104
Jenks, Otis.	Stoves, parlor, &c., for burning an-		
·	thracite	5	146
Jenks, Charles	Distilling, still heads	4	106
Jenks, Charles Jernigan, Richard	Distilling still, wooden	12	107 249
Jerome, Noble	Clocks, striking part of	8	184
Jervis and French	Paper press, cylinder, hot and cold	3	86
Jessop, Jonathan, John Wanbaugh, Geo.		_	
W. Ilgenfritz, and James C. Baker	Cutting fodder	9	11
Jessup, Jonathan	Bridges, balance		192 207
Jessup, John			68
Jessup, George	Thrashing machine	1	32
Jessup, Thomas W	Winnowing machine and fanning mill.	1	35
Jewett, Oliver	Packing flour, and pressing Napping cloth		241
			1 84

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
ewett, Benjamin F	. Plough, mould-board, and sheath, &c.,		
• · · · · · · · · · · · · · · · · · · ·	attaching, &c	1	2
ewett, Sherman S., and F. H. Root		5	13
ewett, Sherman S., and F. H. Root		5	13
ewett, Nathan B		18	39
llson, Asa	. Spinning, spindle	3	9
illson, Asa		3	g
nkham, Samuel G		17	31
oceline, Simeon	. Time-piece, silent moving	8	18
oelyn, Simeon	Pruning shears	i	- 3
hnson, Henry	. Roofs, flat	9	19
	1 = 0	16	229
ohnson, Henry	Freezers, artificial	4	10
		17	3ĩ
ohnson, Salmon			12
hnson, Richard		5	
hnson, Nelson		11	22
ohnson, William M	Types, casting, printers'	18	39
hnson, Luke	Plough, drawing machine for	1	2
hnson, H. and N		14	26
hnson, Moses		4	11
ohnson, William S	Grist mill and paints, snuff, &c	13	25
hnson, George	. Kitchen ranges	5	13
ohnson, Alexander	. Axletrees for carriages	10	26
ohnston, Caleb	Press, tobacco, double lever	12	24
obnson, Elisha	. Railroad	9	19
ohnson, Elisha	. Railroad	9	19
ohnson, Israel, jr		14	27
ohnson, Israel, jr	. Saw mills	14	274
ohnson, Sol. R		14	275
ohnson, Joel N		14	278
ohnson, Lewis		4	104
ohnson, Asa		4	106
ohnson, Arthur L		9	20
ohnson, Nelson	Water wheel	11	23
ohnson, John C	Spark arresters	-6	15
phnson, Edwin F		6	150
ohnson, Edwin F.—see Hedge, L.	Store one in the store of th	1	
ohneon Jersel G	Shingles sawing	14	279
ohnson, Israel Gbhnson, John, and O. Freeman—se	Shingles, sawing	43	
Tuttle, W. H.	-	1	ĺ
ohnson, John—see Waring, G. E.			l
	Stone design for		194
ohnson & Cox, assignee of E. Ripley		3	131
ohnson, Charles F	Clock, turret or town	8	19
ohnson, Henry		3	74
ohnson, James		1	15
ohnson, Willis H	Raising and forcing water	11	22
ohnson, William		7	179
ohnson, Cephas		8	180
hnson, William G		1	31
hnson, Henry	Thrashing machine	1	31
ohnson, George A	Winnowing grain	1	34
ohnson, Warren	Corn sheller	1	1 8
hnson, Lancelot	Hulling cotton seed	1	14
ohnson, Benjamin	Plough, carey bull	1	19
ohnson, John	. Stock, for neck, metallic frame for	20	353
phnson, E., G. Geer, and D. B. Con			
assignees of Ezra Ripley	Stove, design for	5	137
ohnson, James	Ladder, life escape and fire		358
ohnson, Henry	Saw, gumming	2	57
phnson, Walter R	Steel, converting iron partially into		61
ohnson, Walter R	Steel, increasing strength of	2	61
above Take O	Flax and hemp machine	2 2 3	73
nnman, jann ti.			
ohnson, John Cohnson, Samuel	Fur, cutting from skins.		74

PATENTINES.	inventions or discoverise.	CLASS.	PAGE.
Johnson, Eben	Wheel hubs, boring and reaming	10	214
Johnson, Eben	Wheels, reaming out and setting boxes		
Takana Ta	in	10	215
Johnson, Jasper	Compressed air for drawing liquids	11	221
Johnson, Charles	Motion, fly-wheel, &c., to multiply	13	259
Johnson, Charles F	Cooks at a	9	193
Johnson, Charles F., and J. J. Speed, jr.	Cocks, stop	11 13	290 250
Johnston, William G	Horse power, inclined plane	13	259
Johnston, William G	Platform devible maring wheels	13	255 255
Johnson, John	Platform, flexible, moving wheels	13	26
Johnson, Israel, jr	Wheel and rest	5	141
Ripley	Stove columns, design for	5	187
Johnson, Ashton	Tobacco, cutting, spun	21	359
Johnson, Ashton	Tobacco, spinning	21	359
Johnson, Herkimer	Shaving leather	16	300
Johnson, Leonard B	Tanning and tan yards	16	303
Johnson John C	Tan vats, reservoirs, constructing with		
	cement	16	303
Johnson, George	Syphons, constructing	11	229
Johnson, George M	Hats, coloring	3	77
Johnson, John	Polishing plates, &c	18	326
Johnson, Nelson	Water wheel	11	231
Johnson, Daniel	Pumps, suction	11	227
Johnson, James	Water wheel	11	230
Johnson, Nelson	Water wheel, reacting	11	234
Johnson, Nelson	Water wheel, reacting	11	234
Johnson, John	Water wheel, sub	11	234
Joly, Charles	Water wheel, &c., adjusting boxes, &c.	11	232
Jones, Samuel T	Car, railroad, pendulous	10	207
Jones, Samuel T	Car, railroad, to run on roads and streets	10	207
Jones, Samuel	Lock, wagon	10	209
Jones, Irby	Horse power	13	255
Jones, William	Faucets, plugged	11	225
Jones, Nat	Combs, manufacturing, wooden	20	350
Jones, J. T.	Plane	14	271
Jones, Eb	Sawing wood and stone	14	277
Jones, Adonijah, jr	Saw mills	14	274
Jones, Thomas P	Wind wheel, horizontal	11	235
Jones, Alexander	Gin, cotton	3	75
Jones, Alexander	Igniting powder, &c., by hydrogen gas Press, cotton	10	109 242
Jones, Alexander	Tour elegating molting notes	12 4	110
Jones, Jonathan	Ley, cleansing, melting potash	4	110
Jordon & Anderson	Magnesia, medicated liquid	6	158
Jones, Alfred C	Spark catcher	14	279
Jones, Parke. Jones, Seth C.	Raising canal boats	9	195
Jones S S		5	141
Jones, S. S. Jones, Alfred C	Stoves, cooking	6	159
Jones, William		6	160
Jones, Luther	Lamps, spirits turpentine, burning	5	133
Jones, Adrian	Stoves, anthracite coal	5	136
Jones, Caleb	Stove pines	5	140
Jones & Richardson	Stove pipes	ĭ	20
Jones, Alfred C	Steam engine, locomotive	6	159
Jones, Joseph	Seeding, planting machines, &c	ĭ	2
Jones, Orlando	Starch, manufacture	4	11
Jones, Richard	Press, screw and application to the		
,	pressure of elaine from tallow	12	244
Jones, Thomas M	Stoves, air-tight		13
Jones, Samuel	Hats, rounder and gauge	5 3	78
Jenes, Noel	Spinning flax, reeling and spooling	3	90
Jenes, William		3	9

PATERTURE.	· MARKLIONS OF DISCOABURE.	CLASS.	PAGE.
Jones, James	Spinning, roping, and doubling cot-		
Jones, Francis	ton, silk, &c	3 3	95 95
Jones, George	Beer, making apruce	3	160
Jones, Samuel J	Charring wood for procuring gases	3	102
Jones, Nathan	Pulverator	4	114
Jones, Nathan	Pulverizing substances	4	114
Jones, Joseph	Air, heating, for hot blast in furnaces.	5 13	123 265
Jones, William	Auger	13	265
Jones, William R	Drills for metal	2	42
Jones, Daniel	Gold, separating from earths	2	45
Jones, Thomas	Hammer, cast iron	2	45
Jones, William	Iron, puddling and heating	2	47
Jones, Henry C	Locks, mail bag and clasp	2 2	50 50
Jones, Henry C	Locks, trunk, &c	2	56
Jones, Eb	Washing machine	17	314
Jones, Edward	Washing machine	17	314
Jones, Luther	Churn	i	5
Jones, Ezra G	Churn	1	5
Jones & White	Boring rocks	9	193
Jones, Henry C	Straw, cutting, cabbage, &c	1 1	26 29
Jones, James, jr	Thrashing machine	5	133
Jones, Alexander	Streets, sweeping	9	280
Jones, James	Wheel-hub, pipe box for	10	214
Jones, Levi-see Foster, C.	, , , , , , , , , , , , , , , , , , , ,		
Jones, William, and Roswell Farnum	Steam engine, rotary	6	161
Jones, James.	Sash fastener	2	57
Jones, A. B., assignee of W. H. Jones	Silk, reel for reeling	3	85
Jones, Alexander	Gin, cotton, saw, cylinder for	3 7	76 175
Jones, Thomas L	Propelling and steering boats, &c Weighing, packing, and pressing ma-	'	119
Jones, Gilbert D	chine	12	245
Jones, Henry C	Lock for vaults, &c	2	50
Jones, H. C	Padlocks for mail bags	2	54
Jones, William J., and Henry C. Smith.	Seeding, machine for sowing grain		-
Tomas Tamas	broad cast	1 1	23 3
Jones, James	BeehivesBeehives	i	Ä
Joraleman & Lockman	Marine railway	9	197
Jordan, John W	Plough, hill-side, inverting, &c	1	20
Jorden, John M	Hydrants and fire plugs	11	223
Jordon, David C	Saw, setting	2	57
Jordon, Anderson P. H	Corn, grinding and crushing	13	251
Jordon, JoshuaJordon, John	Sugar, damper, furnace	9	117 201
Jordon, John W	Plough, hill-side and horizontal	i	20
Jordon, Henry	Gold digging and procuring	9	196
Joslin, Gilman	Stand for globes, &c., design for	8	185
Joslin, Benjamin F	Condenser, steam engines	6.	158
Joslin, B. F		6	158
Joselyn, James	Propelling boats, steam	7	174 171
Josselyn, Chris	Plugs, cutting for waists and decks.	' 1	111
Committee Commit	ships	7	171
Josslyn, James	Pumps, balance, wheel	11	295
Josselyn, Charles	Anvil and hammer	2	39
Joyce, Thomas	Fuel, preparing, and stoves for same.	5	198
Joyce, Ezra	Hats, plank, kettle	3	78
Judd, Eb. W	Marble, sawing	15 17	989 307
Judd, Bethel Judd, Allen	Bedsteads		301 335

PATEMPERO.	INVENTIONS OR DISCOVERENCE.	CLASS.	PAGE.
Judd, Sturgess M	Bechive	1	3
Judd, Oliver	Latch, door	2	48
Judd, Oliver, jr	Sawing boards, &c	14	277
Judge, John	Timber, hewing, dubbing, &c	7	178
Judge, John	Mouldings, sticking on plank, &c	9	197
Judge, John	Cables, chain and hemp, proving	7	169
Judkins, Eliza Ann B	Loom, hand, weaving fringe	3	80
Judson, Levi C	Ointment	2	112 58
Judson, A.—see Jackson, T. D.	water, puller, until 12101 outles : 1 2 2 2 2	~	
Judson, Alfred	Pump, steam boiler	6	154
Judson, Abel	Lock, gun	19	385
Judson & Hotchkiss	Thrashing machine	ĭ	29
Julian, William F	Propelling paddles, steam, &c	7	175
Justin, James	Washing machine, and grinding	37	318
Kahla Samual	Thurshing mashine	,	21
Kable, Samuel	Threshing machine	21	31 352
Kaighn, Elias	Tuyere iron, blacksmiths	2	62
Kalisky, Fred	Distilling apparatus	~ ~ I	105
Kane, Stephen and Thomas, and James		- 1	200
Keane	Screw-wrench	2	59
Kassler, Abm	Pump, suction and force	11	227
Katen, Lewis	Block letters, making	17	321
Katussowski, Henry, & F. P. Wierzbicki	Stoves for fireplaces	5	144
Kaufman, David	Washing machine	17	317
Kayes, Orin	Skins, deer, dressing	16	300
Kayser, Andrew	Lamps, lard	5	133
Keagy, Abraham, and Mich. Shimer	Spark arresters	6	155
Keagy, Abraham	Hulling clover seed, &c	17	13
Keagy, A. and J	Cutting sausage meat	2	312 58
Keane and Keane	Screw, manufacturing	2	58
Keane and Keane	Vice, bench, metal	$\tilde{2}$	63
Kearney and McArdle	Water tank, floating	11	229
Kearsing and Kearsings	Piano forte	18	325
Kearsing, Thomas	Propelling boats	7	172
Kearsing, William F	Propelling paddle wheels	7	174
Keath, Edwin	Gin, cotton, grates	3	75
Keath, Edwin	Window blinds, opening and shutting	9	201
Keedy, Jonathan	Saddles, bow and worm, spring for.	16	299
Keefer, John	Mill stones, dressing	13	258
Keeler and Waring	Churn, rocking.	10	7
Keen, Jeremiah B	Boots and shoes, cutting	16	294 280
Keen, Joseph S	Staves, double, &c	14	185
Keene, Elisha L	Lightning, protecting vessels from Hulling clover seed	ů	13
Keim, Jacob	Lamps	5	131
Keintzle, George	Bleaching	4	100
Keith, Edwin	Brushes for cotton gins	. 3	67
Keith, Edwin	Gin, cotton, improvement in	3	75
Kellenback, Baltazar J	Distilling, still for	4	106
Kellenback, Baltazar J	Distilling, still, percetual, &c.	4	106
Keller and Burt	Horse wheel, vertical	13	257
Keller, Charles M	Horse power, portable	13	256
Keller, Charles M	Staves, sawing	14	281
Keller, Daniel		7	172
Keller, David	Boats, for descending rapid streams	7	168
Keller, Jacques, assignee of Dan'l Pfister		15	290
Kelley, Elisha	Plough	3	17 76
Kelley, Hillery H		11	234
Kelley, William			176

PAT MITTER .	inventions or discovering.	CLASS.	PAGE.
Kelley, William	Propelling wheels, boats	7	175
Kelley, Zaccheus	Mitre machine	14	930
Kellogg and Kellogg	Shearing cloth	3	88
Kellogg, Samuel Kellogg, Friend B	Shearing wool and cloths	3	86 86
Kellogg, George C	Shearing cloth	3	67
Kellogg, Geo. C., and Phineas Gillett	Wool, cotton, &c., picking & opening	3	95
Kellogg, Jonathan D., (assignee of Justus	, , , , , ,	1	
Wright	Cocks, molasses gate	n i	230
Kellogg, Henry, (ass'ee of Isaac Kellogg		2 2	57
Kellogg, Erastus	Flax and hemp machine	î	73 14
Kellogg, John J	Mortising machine		270
Kellogg, (see Smith.)	more many		
Kellogg, Salvin F	Stoves, air heating	5	137
Kells, Jos	Motion, constant, from irregular	13	258
Kells and Carter	Nails, manufacturing	2	. 53
Kelly, Hez Kelly, John	Turpentine, extracting by steam	13	256 256
Kelly, William	Steam engine		157
Kelly, William	Saddles, trees	16	300
Kelly, W. and N	Shoemaker's workstand	16	300
Kelsey, Mellville	Wire cap	2	<u> </u>
Kelsey, Franklin	Cordage	2	70
Kelsey, Franklin	Flax and homp machine	17	73 34 5
Kelsey, Francis	Bees, management of	i i	7,
Kelsey, Horatio H. C	Hydrants, valves for	11	222
Kelsey, Israel	Grist mill, horizontal	13	254
Kelsey, James E., and Jas. A. Potter	Press, cotton, hay, &c		343
Kelsey, William R.	Bechives	1 1	4
Kelsey, M., (see Sparkman, J. D.)	Charm laman	1 1	7
Kemball, Philip H Kemp, Benjamin M	Churn, leverGrist mill	13	959
Kemp, Samuel J	Window sash springs	2	63
Kempton, James C	Loom, power	2	81
Kempton, Obed	Parcelling rope	7	171
Kendall, Amos	Boats, cylinder	7	168
Kendall, Eli.	Hides, breaking and softening	16	997 997
Kendall, Eli.	Pump, valves, spring or drop Boarding machine, for softening hides		293
Kendall, Geo. M	Crackers, cutting	17	311
Kendall, Hartwell	Press, cheese, construction of	12	949
Kendall, Jer	Salt, kettles for boiling	4	115
Kendall, Jonas	Bleaching cotton and linen yarn Cooking stove	4	100
Kendall, Jonas	Cooking stove	5	140 112
Kendall, Jonas	Oxymuriate of lime, preparing	1	34
Kendall, Jonas, jr	Trees, fruit, prevent's canker worm in Hinges, butt, mould for cutting	2	46
Kendall, Joseph G. and Jonas H.	Bleaching paper		100
Kendall, Levi	Balance, lever, spring catch	12	239
Kendall, Reuben	Grist mill	13	253
Kendall, Thomas	Bonnet tips, pressing, apparatus for	3	67
Kendall, William	Sawing boards	14	277 276
Kendall, William	Saw mill, reciprocating		276
Kendall, William	Water, applying to saw mills		229
Kendall, William	Water wheel, and applying water to .	11	999
Kendall, William, jr	Motion, extending, &c	13	258
Kendall, William, jr	Saw, circular		273
Kenderdine, John E	Saw mill		274 277
Kendrick, John.	Sawing circular stuff		195
Kennedy, Henry P.	Chair, recumbent		910
Married Allegand Consequences and Assessed			

			-
PATHETENO.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Kennedy, John	Scap, making by steam	4	116
Kennedy, Leonard	Washing machine	17	314
Mennedy, Samuel	Mouldings, cutting	9	196
Kennedy, Walter	Shearing cloth	8	88
Menner, Henry B	Cocoa grass, destroying	1	8
Kenney, Bernard	Chimney caps, constructing	5	124
Menney, Cyrus	Hinges, butt, wrought iron, bending the knuckles of	2	, 46
Kenney, Cyrus	Hinges, butt, wrought iron, machinery for making	2	46
Kenney, Cyrus	trumming	ß	46
Kennion, John	Fulling and washing mill	3	74
Kenrick, Charles	Tailoring, art of	21	354
Kenrick, Green, (assignee of William B.	n		
Junbar)	Buttons, &c	21	349
Kenny, Robert	Propelling boats, setting poles	7	174
Kent, Edward N	Plaster mill	13	139 259
Kent, Emanuel	Extracting color from dye woods		108
Kent, Laurens	Bedstead fastenings		308
Kent, Nathan	Nails from scoops	2	52
Kenton, Levi	Silvering and gilding leather	16	300
Kenzie, Charles	Water wheel	11	280
Kenzie, D. M., and others	Water wheel, head of water applying.	11	232
Kephart, Peter	Fruit and vegetable preservers	17	313
Keplinger, Samuel	Feathers, dressing	17	312
Keplinger, Samuel	Chains, watch	17	321
Kenner, Samuel	Threshing mashing clover &c	7	177 32
Kern, Samuel	Compass	1 2	41
Kerr, Grant and Potter	Vessels, lining, constructed of sheet iron		179
Kerr and Hoover	Distilling	1 4	104
Kerr, James	Pump, wind	11	226
Kersey, Asahel A	Shingle machine	14	278
Kersey, Jesse	Engine, fire		221
Kersey, Jesse	Nails, cutting and heading		52
Kesselmeier, Friedrick	Clock pendulums,		184
Kesselmeier, Friedrick	Stoves, cooking	5	141 128
Ketcham, Micah, and Wm. A. Wheeler. Ketcham, Micah	Stoves, cooking	5	140
Ketchum, Archibald C	Potato diggers	i	21
Ketchum, William F	Cutting grain	Ī	ii
Ketchum, William F	Mowing, reaping machines	1	13
Ketchum, William F	Incline planes, &c., ascending, &c	9	196
Ketler, Adam.		5	141
Kettell & Wright	Hats, bodies, stiffening		77
Kettering, Adam, and A. Vogle	Tanning.		301 233
Keys, Inomas	Water wheel, letting on water,	11 3	72
Keyes, Israel	Cooking stove.	5	139
Keyes, Israel	Wind wheel, regulating		236
Keyes, Israel	Binding grain	1	4
Keyser, George,	Powder mill	19	336
Keyser, Henry	Powder mill	19	386
Kibbe, Sylvester	Press, cheese	12	242
Kidder, Jonathan	Clapboards, circular saw for	14	267
Kidder, Levi	Walls saven of	4	101 285
Kidder, Levi	Wells, covers of		220
Kidder, Levi			220
Kidder, Levi			358
Kies, Mary		8	94
Kilborn, Lemuel Janes	Clocks, striking part		184

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Kilborn, Lemuel J	Wheels, casting, for clocks	8	1.67
Kilborn, Jonathan	Bark, grinding	13	200
Kilborn, Robert	Axletrees, diminishing friction	10 4	184
Kilburn & Biddis	Distilling alcohol	17	366
Kilburn, George	Doors, drops	9	194
Kilburn, Samuel	Motion, communicating	13	258
Kilburn, Samuel	Trip hammer, portable	2	63
Kilburn, Wells	Seeding, planting seed	1	23 23
Kile, Conrad	Loom, weaving cloth for sacks	3	83
Kile, Conrad	Loom, weaving, stocks	3	83
Kile, Conrad	Tailor's measure for cutting coats	21	354
Killam—see Savage. Kimball, Arthur	Carding hair neat cattle	3	68
Kimball, Ephraim	Carding hair, neat cattle	ĭ	12
Kimball, Ephraim, jr	Scythes, manufacturing	2	58
Kimball, Increase	Nails, brads, and sprigs	2	54
Kimball, John T	Carriages.	10	207
Kimball, Perry & Spaulding Kimball, Shubael	Hoops and barrels, dressing Lever purchase, working mills	14 12	268 240
Kimball, Shubael	Washing machine	17	314
Kimball, Stephen	Loom, power, friction to yarn beam	3	81
Kimball, Tristam	Wheels, felloes, bending	10	212
Kimball & White	Mead, composition	.4	11
Kimball & Willard Kimball, William B	Planing, for barge and scaleboards Cooking stove, heating	14 5	272 143
Kimber, Emmor	Car, locomotive and sails	10	206
Kincaid, John	Distilling, still for	4	106
King, A	Cutting soft substances	17	312
King, Benjamin	Steel, &c., welding by pit coal, &c	2	61
King, Benjamin	Plates, horizontal, making holes	3	55 68
King, Charles	Washing machine	17	317
King, Charles	Churn	1	7
King, John C.	In bust of Robert Burns	18	321
King, Charles E	Stand for social stands	16	298 211
King, Charles M	Washing machine	10 17	314
King, George J	Plough, cast iron	i	19
King, Harmon	Vessels, berth of, &c	7	179
King, Henry	Wrench, rack	2	64
King, Henry. King, James.	Mortising machine	14	108 270
King, James.	Saw mill, head block of, &c	14	275
King, John B	Straw cutter	i	27
King, John F	Gate, paddle	11	222
King & King.	Ores, improvement in working	2	. 54
King, Matthew W	Propelling paddle wheels for steam,&c. Brakes, railroad car, &c	7°	175 206
King, Matthew W	Chair, revolving, &c	17	310
King, Nicholas	Churn, propelling by weights	i	7
King, Roswell	Hulling and cleaning rice	1	14
King, Roswell	Gold, separating, &c	2	45
King & Salisbury	Gold washerSprings, carriage	10	45 911
King, Sumner	Staves, saw	14	381
King, Sumner	Springs, elliptical	10	211
King, Sumner	Staves, sawing and jointing	14	361
King, Sumner	Shoes, horse	2 14	59 267
King, Thomas H.	Refrigerator.	17	312
King, Jesse.	Potatoes, grinding	13	259
Kingsley, Apollos	Brick machine	15	385

PATRIFFRAM.	ENVENTIONS OR DISCOVEREDS.	CLASS.	PAGE.
Eingsley, Apollos	Brick, tempering mortar for	15	987
Kingman, Henry W	Bureau bedsteads	17	300
Kingsbury, Hezekiah	Churn and washing machine	1	8
Kingeley, John L	Printing press	18	328
Kingsbury, Lewis	Chimneys and fireplaces	5	125
Kingsbury, Lewis	Cooking stove	5	139
Kingsley, J. Lemuel	Printing press	18	328 328
Kingsley, J. Lemuel	Printing press	18 18	328
Kingsley, Nathan P.	Cooking ranges	5	135
Kingsbury, Rhodes	Screw cogs, ships' blocks	7	177
Kingsbury & Rowse	Steering wheel	7	178
Kingsbury & Rowse	Car, railroad	10	207
Kinman, John	Grain, shouldering machine	13	252
Kinney, Avery	Cutting shingles	14	278
Kinney, M. G.—see Engle.		_	- 40
Kinney, William	Cooking stove, coal	5	142
Kinsey, Charles	Paper making	3	85 359
Kinsley, Apollos	Tobacco, cutting, machine for	22 11	227
Kinsley, Apollos	Printing press	18	327
Kinsley, Rhodolphus	Mortice latches for doors	2	48
Kinsley, Rhodolphus	Combined lock and latch	2	50
Kinsley, Rhodolphus, ass'ee of S. Noyes.	Locks and latches	2	50
Kintzi, George	Releasing horses from carriages	10	208
Kinyon, Benoni	Blasting rocks	9	191
Kirk, A. S	Steam engine	6	157
Kirk & Clark	Hides, breaking, hairing, &c	16	297
Kirk, Charles	Markle assista	15	183 289
Kirk, Isaac D	Marble, sawing, moulding, and polish-	15	203
'	ing	15	289
Kirk, Joseph	Shoeing, swinging horse frame for	2	59
Kirk, Josiah W	Fender, to protect boats from snags, &c.	7	170
Kirk, Josiah W	Ornaments, from anthracite coal, &c.	18	324
Kirk, J. W. and Eli	Heating air, for houses	5 2	130 64
Kirk & Leslie Kirk, Nathan	Wire, weaving	14	275
Kirk, Timothy	Cistern, boiling	5	125
Kirk, Timothy	Winnowing clover seed	ĭ	34
Kirk, William	Thrashing machine	1	29
Kirkland, Lucius	Crackers, cutting	17	311
Kirkman, John	Tallow, preparing, for candles	4	118
Kirkpatrick, Alexander	Weather strip	14	282
Kirkpatrick, Andrew	Mortar, mixing	15	290
Kirkpatrick, Andrew	Washing machine	17 6	314 163
Kirkpatrick, John	Valve for boilers	6	163
Kirkpatrick, John	Valve for boilers	6	163
Kirkpatrick, John	Valve, puppet	Ğ	163
Kisinger, Samuel, H. and E. G. Stake	Corn sheller	i	9
Kite, Joseph S	Axletrees, railroad cars	10	205
Kittenger, Casper	Veneers, straight or curved, laying on	14	282
Kittinger—see Iba.		~~	000
Kittinger, Levi	Kat traps	22	358 303
Kizer, David	Polones cools envis	16	303
Klasson Charles	Saddles enving	2 16	299
Klasson, Charles	Plough	10	16
Klay, John. Klein, George W. Klein, Joseph* Kling, William. Klipstine, Philip A. Knapp, Knap, and Howland.	Bark, evaporating, extract.	4	99
Klein, Joseph	Smut machine	i	,
Kling, William	Cutting apples	17	310
	I TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	113
Klipstine, Philip A	Paint, composition	4	119

PATERIUM.	MARNYIONS OR DESCOVERSE.	CLASS.	PAGE.
Knapp, Lewis	Buildings, constructing	9	191
Knapp, Lewis	Paint, galvanic, &c	4	-
Knapp, Liscomb	Pump for machinery	11	9
Knapp, Liscomb	Raising water	11	
Knapp, Milo	Attaching horses to wagons	10	981
Knapp, William	Tannin, extracting	4	
Knauer, David	Thrashing and corn shelling machine.	1	33
Kneas, John	Counterfeit, preventing	18	332
Kneeland, J. C.	Printing presses	18	328
Kneeland, Seth R	Cutting smoked beef	17	319
Kneeland, Tim. P	Brick machine	15	285
Knickerbacer, James	Forges, blacksmiths	2	43
Kniffen, William C	Washing machine	17	316
Knight, Benjamin.	Boring timber, for mortising	14	266
Knight, Benjamin	Alarm to clocks, &c	9	183 198
Knight, Isaac	Raifroads and carriages	10	206
Knight, Isaac	Buildings, stores, &c	9	192
Knight, James	Truss	20	344
Knight, John	Ride for sharpening scythes	1	22
Knight, John	Cutting, scythe snath	1	11
Knight, Jona	Fireplace and oven	5	127
Knight, Luke L.—see Fessenden, Asa.	Charac		
Knight, Michael	ChurnSpark arresters	6	154
Knight, William	Inclined planes, raising canal beats	9	197
Knight, Wm., A. L. Knight, and E. F.	The state of the s		
Condit	Paper making	8	86
Knipe, James	Bedstead fastening	17	36 6
Knisely, Christian	Bedsteads	17	307
Knode, George	Shingles, sawing	14	213
Knowlend Jacob and Jacob E	Plough, combined	21	19 352
Knowland, Joseph and Jacob F Knowles, Caleb C	Garments, measuring instruments	î	- J.
Knowles and Gilbert	Preserving timber, &c	4	114
Knowles, Hazard	Power, alternate motion, by contrac-		
-	tion and expansion of metals	13	259
Knowles, Hazard	Plane stocks, cast iron	14	212
Knowles, Hazard	Carriages, overcome obstruct's in roads		208
Knowles, Hazard	Springs, wagon	10	211 192
Knowles, Hazard	Roofs, covering	9	199
Knowles, Hazard	Screw, wood	2	58
Knowles, Jonathan	Carriage trucks, chain applied to	10	209
Knowlton, E. A	Grinding corn and cob, mill for	13	252
Knowlton, F. P.	Feathers, dressing	17	312
Knowlton, Stillman	Boots and shoes, taps for soles	16	255
Knox and Haskins	Spinning, roping, wool and cotton	3	99 75
Knox, Peter	Gin, cotton, propelling	ا مد ا	207
Kohler, Daniel	Adding machine	1 6 1	183
Kolb, Augustus			108
Korn, Henry	Harness nets, fly, for horses	16	257
Korn, Henry	Harness nets, fly, for horses	16	297
Korn, Henry	Harness nets, fly, for horses	16	297
Korn, Henry	Kilm charring coal	16 5	131
Kraft, Benjamin	Saddles	16	255
Kranser, Jos	Nails, manufacturing		53
Krauser, John and Cyrus	Plough	1	79
Krauser, Samuel	Wheels, railroad cars, to prevent fric-		
Wronger Semuel	tion	10	215
Krauser, Samuel	risides, sottening and distinting	16	998

		_	_
PATRIPPOR	IMARMAIONE OF DISCOAMME.	CLASS.	PAGE.
Keauss and Krauss	Lime, &c., spreading	1	148
Emicg, Frederick	Pumpa	ıî	205
Krim—see Flickinger. Kropff, Frederick C	Furnace smalting &c	2	44
Kugler, Benjamin	Furnace, smelting, &c	2	44
Kugler, Benjamin.	Planing machine	14	272
Kugler, Benjamin	Gas, carburetted hydrogen	1	108 13:
Kuhn, Ludwick C	Hulling clover. seed	17	307
Kumbel, William	Leather, extending, &c	16	298
Kumbel, Wm.—see Jennison, W. H. Kumitz, John	Bleeding with leeches	19	341
Kurtz, A	Charcoal, manufacturing	4	102
Kurtz, Chris	Saddles, trees	16	300
Kyle, James	Lock, doorLock, door	2	49 49
Kyan, John Howard	Preserving timber, &c., from decay	~	
Kymer, John	Furnace, grate bars	5.	128
	•		
Lacey, John	Cock, valve, and piston	11	221
Laciar, Sebastian H	Cooking stove	5	140
Ladd, C. P	Balance, platform	12 15	293 293
Ladd, Jesse	Churn	ī	6
Ladd, Nathaniel	Sumach, extracting essence	4	118
Ladd, SamuelLadd, Samuel	Fire arms, overlaying with tin, &c Spinning, fliers	19 3	334 90
Ladd, Samuel	Spinning, fliers	3	′ 90
Ladd, Samuel G	Feathers, cleaning and purifying	17	312
Ladd, SenecaLadd, (assignee of Seth Graham)	Rake, horse or grain Fur, extracting hair from	3	22: 74.
Ladrange, Pierre E	Loom, knitting	3	81
L'Angais, Rène Lafetra, Tylee W	Electrical conductor	8	184
Laighton, Mark	Lever powerBlocks, sheaves, rollers	12 6	241 167
Leighton, William.	Thrashing and winnowing machine	1	33
Laighton, William	Chair enema	19	341 321
Laighton, William	Books, backing	17	31
Laing, John	Propelling boats, segmental spiral, &c.	7	174
Laing, John	Pipes, lead, &c., machine for making.	2	55
Lainhart, Henry, jr	Steam engine	6 3	156 77
Laird, Joshua.	Printing press, roller	18	327
Laird, Joshua	Glass, machine for blowing	15	288 343
Lake, William	Strabismus goggles	90 9	193
Lamb, James	Cooking stove	5	138
Lamb, John	Hearths, fire, for ships	5	130 322
Lamb, John. Lamb, Joshua.	Grammar, teaching	18 3	68
Lamb, Joshua	Cards, cylinders	3	68
Lamb, JoshuaLamb, L. and L. J.	Card teeth, cutting	2	41 59
Lamb, Seth	Press, cotton	9 12	243
Lamb, Seth	Press, cotton	12	243
Lamb, Seth	Mowing machine	1 17	15. 309
Lamb, William	Water wheels	11	231
Lambert, Koger N	Rifles, cane	19	336
Lambert, SamuelLambert, Thomas S	Combs, forming and shaping	21	350 341
Lamborn, Israel	Beehives	19 1	321
* Omitted in about	a modified and a second and a second	. •	

^{*} Omitted in classification; patented March 31, 1832.

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PATENTEES,	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
ammon, John	Thrashing machine, horse power	1	3
		12	24
ampman, Nicholas J	Press, hay and cotton		
ampman, Nicholas J	Auger, boring large holes	13	26
amphier, Williamampson, Curtis M	Valve, relieving	6	16
		.3	7
ampson, Daniel	Distilling whiskey from corn	4	10
amson, Ebenezer G	Mowing, scythes to snaths attaching	1	1
amson, Henry	Window shades, rolling up	17	31
amson, Silas	Scythe snath, bending, moulds for	14	27
amson, Silas		1	1
amean Silas		16	29
amson, Silas			
amson, S	Cutting scythe snath	1	1
amson, S		1	1
amson, Sancaster, Moses	Cutting scythe fastenings Planing boards, grinding and polishing	1	1
And the second s	marble	14	275
ancy, Wm., and Solyman Merrick		14	28
andes, Christian	Hulling clover seed	i	1
andis, Edmund	Truss for hernia	20	34
		1	2
andis, John K			
ane, Aaron	Stoves	5	13
ane, Aaron		5	130
ane, Aaron	Chimneys, sweeping	5	12
ane, Charles	Fireplace and grate	5	127
ane, Eben	Planing boards	14	273
ane, Isaac C	Loom, rotary temple for	3	85
ane, Joshua	Washing machine	17	315
ane, Joshua	Churn	1	5
	Duisle and tile mann	15	287
ane, Samuel	Brick and tile press	15	-
ane, Samuel	Horse power, endless chain, &c	13	256
ane, Samuel	Thrashing and cleaning wheat, &c	1	26
ane, Samuel	Corn sheller	1	
ane, Samuel	Cutting grain	1	11
ane, Zebina	Seeding, seed sowing	1	23
ang, James	Spinning hemp, &c	. 3	91
ang, James	Vice	2	63
		11	223
angdon, Barnabas	Hydraulic machine		
angdon, Barnabas	Plough	1	18
angdon, Barnabas	Balance, steelyards	12	240
angdon, Barnabas	Laths, splitting and cutting	14	270
angdon, Barnabas	Propelling boats or carriages	7	173
angdon, Barnabas	Propelling boats, horse power	7	173
angdon, Barnabas	Tin ware, manufacturing	2	62
angdon, Barnabas	Planing boards	14	279
angdon, Barnabas	Horse power	13	255
angdon, Barnabas	Shingles, shaving	14	279
angdon, Barnabas, and Amos Salisbury		3	79
angdon, B., and J. C. and J. Trask	Hemp, machine for dressing	13	252
angdon and Langdon	Grist mill	7	173
angdon and Langdon	Propelling boats, horse power	100	
angdon and Morey	Staves and heads for barrels	14	281
andon, Reuben	Thread, packing	3	95
ange, Urban, B. Aange, Urban, B. A	Chimneys, preventing smoke	5	125
angenheim, F., assignee of Johann B.	Stoves, stone coal	5	146
Isenring	Daguerreotype pictures, coloring, &c.	18	322
angenheim, F	Daguerreotype plates, coloring, &c	18	322
angford, Charles	Grist mill	3	95
angley, Lemuel	Compass, mariners', fixing	8	184
angetroth Thomas		3	
angstroth, Thomas	Paper, making		85
angworthy, William A	Combs, metallic	51	350 110
aning, Jos. H	Liquids, charging with gas	4	

		,, -,,	
PATRITURE, . ,	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Laring, Samuel	Apples, gathering	1	
Lankester, William	Stoves, parlor	5	146
Lanning, Joseph H	Steam, working twice	6	163
Lanny, David S	Electrophorus	8	184
Lanny, David F	Time-piece	8	187
Lanny, David F Lanny, Peter	Water proof leather electic	5	126
Lanny, Peter	Water proof leather, elastic Beds, warming	16 17	303
Lanpher, Asahel M	Spinning cotton, &c	3	307 89
Lansing, Eli B	Water wheels	11	23
Lansing, John, jr	Tanning in hemlock	16	309
Lansing & Thayer	Steam engine, rotary	6 -	160
Lanuza, C	Ruling machine	18	326
La Paype, l'ainé	Cattle mill	13	250
Lapham, Benjamin	Loom, power	3	81
Lapham, Benjamin	Loom, power and common	3	81
Lapham, Benjamin	Spinning wool	3	94
Lapham, Benjamin	Lard or tallow, converting into sepa-	اند	***
Tanham Renjamin	rate substances	14	109
Lapham & Cady	Pump, forcing	11 3	226
Lapham, Daniel P., administrator of Ben-	Times, bources.	۱ ۲	76
jamin Lapham, deceased	Spinning, self-acting mule for	3	91
Lapish, Benjamin U	Churn	ă	5
Laporte, Peter	Mail bags	16	298
Laporte, Peter	Horses, machine for stopping	22	358
Laporte, Peter	Cloth, manufacturing of flax and wire	3	69
Laporte, Peter	Boots for stages	16	295
Laporte, Peter	Harness, bridles	16	296
Larcum, Amos	Washing machine	17	317
Lareum, Amos	Washing machine	17	315
Lard, Isaac	Cutting grass	1	. 11
Lardner, D., and James Davidson	Provisions, preparing	7	114
Large & Grice	Steamboat and engine	i l	177 10
Larkin, John E	Stumps, extracting, removing houses.	9	200
Larrabee, Lebbeus	Boxes for pulleys, casting metallic	2	40
La Rue, Jesse	Railroad, switches, shifting	9	199
Lathan, Bennett, and Greene	Water wheel, horizontal	11	233
Lathrop, Dixwell, jr	Cock, to prevent water freezing in pent	ł	
	stocks	11	220
Lathrop, Rufus	Mill wheel	13	258
Latour, Lewis	Propelling wheels, boats, elastic oars.	7	176
	Saddlebag	16	300
Latrobe, Benjamin H	Railroad tracks	9	199
	Stove, for heating room	5 2	145
	Potash and pearlash	4	61 114
	Umbrellas	21	354
	Hearth, blacksmith, &c	2	45
	Stove, cooking	5	142
	Buckles	2	40
Laurence, William	Lamps, coach	5	132
	Rattoon and cane cutters	1	22
	Printing music	18	327
	Bridges	9	192
Law, Hervey		14	270
Law Harmer	Planing machine	14	272 280
Law, Hervey	Stores dressing and jointing		2000
Law, Hervey	Staves, dressing and jointing		104
Law, HerveyLawes and Grosjean	Distilling	4	104 954
Law, Hervey Lawes and Grosjean Lawing and Monteith	Distilling	13	254
Law, Hervey Lawes and Grosjean Lawing and Monteith	Distilling	4	

INDEX.

Patricula.	MARNAIOM OF DISCOASSES	CLASS.	PAGE
Lawrence, Thomas	Trues for hernia, 60	20	
Lawrence, William	Lathe, pin for turning wire-eyed buttons	14	9
Lawrence, William	Binnacle lights.	5	19
Lawrence, William	Chandelier	5	19
Lawrence, William	Chandelier	5	10
Lawrence, William B	Stoves, cooking, burning bituminous	_ (
	_ coal, &c	5	14
Lawton, Robert B	Pistols, sabre.	19	33
Laysard, Lewis	Packing cotton	12 11	941 99
Lazell and Bloodgood	Raising water	9	197
Leach, Caleb.	Boring pumps	14	26
Leach, Harvey	Bridge, manner of crossing rivers, &c.,	**	
	by means of a moving platform sus-		
	pended to a	9	192
Leake, J. S., and F. S. Low, (assignees	· ·	1	
of Addison Low)	Stove, design for	5	136
Leal, Robert	Water wheel, vertical, tide	11	235
Leaming, Samuel L	Saddles, spring	16	299
Lear, Asahel	Cooking stove	5	149
Lear, Peter—see Buck, E.	Describes de la constant de la const	ا ۔ ا	175
Lear, Peter	Propelling paddles, vibrating, &c	7	175
Learned, Charles	Flax and hemp, cleaning and hackling		74 989
Learned, SamuelLeavenworth, William			173
Leavitt, Daniel		19	334
Leavitt, Isaac	Washing machine	12	315
Leavitt, Isaac, Adna Gilmore, and Wm.	6		
Sturtevant	Washing machine	17	317
Leavitt, John S	Cooking stove	5	140
Leavitt, Joshua and Thaddeus	Gin, cotton	3	75
Lecesne, Lewis	Distilling apparatus		105
Leckie, Robert	Lime, hydraulic	4	110
Lee, AbijahLee and Barber			16 314
Lee, David	Washing machine	17	93
Lee, D. B.	Steam engine		156
Lee, David B	Valve for boilers		163
Lee, Frederick L	Smut machine		94
Lee, James	Brick machine	15	285
Lee, James	Fuel, drying, for glass furnaces	5	196
Lee, James A	Weevil, mode of destroying	1 1	94
Lee, John		5	149
Lee, John	Lamps, lard	5	133
Lee and King	Brick machine	15	285
Lee, Martin	Washing machine	17	314 314
Lee, Martin.			74
Lee, Milo —see Wilson.			•••
Lee, Milo—see E. Wilson.		1 1	
Lee, Philander	Drag for removing stones, &c	9	194
Lee, Richard	Gold, washing and separating	2	45
Lee, Samuel		4	113
Lee, Samuel A	Pump, rotary suction	11	927
Lee, Samuel H. P	Pills, bilious	4	113
Lee, Samuel H. P Lee, Samuel, jr	Pilla biliona	4	113 113
Lee, Stephen S	Lamns hydro-nnaumatic	11	227
Lee and Stewart	Steam engine, rotory	6	168
Leeke, Charles	Steam engine	6	156
Leet, Charles W	Stove, parlot	5	146
Lettel, James	Horse power, power and motion of	13	257
Lettel, James	Water wheel	11	231
Lefever, Jos	Pendulum machine	13	259

PATENCTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Lehman, Jos	Vermifuge, preparing	4	119
Lehman, Samuel	Ladder, fire	22	358
Lehr, John F	Saddle springs	16	299
Leibenan, Henry L	Stoves	5	136
Leibrich, Conrad	Lock and double catch bolts	Ž	49
Leighton, Luke M	Pumps	11	224
Leighton, Luke MLeighton, Thomas, assignor to New Eng-		19	334
land Glass Company	Glass furnace	15	288
Leland, Abner	Stoves, cooking	5	141
Leland, John	Loom, power, broad	3	81
Leland, Levi N	Cutting leather	16	296
Leman, Eben	Pump, spear for	11	227
Leman, Eben., jr	Locks		49
Lemmond, William J	Garments, tailors' measuring instru-		ļ
	ments	21	352
Lemont, Archibald	Dies and taps	2	41
Lemont, Levi P	Garments cutting	21	351
Lenher, John	Wheels, spokes, cutting tenons on	10	215
Lenox, Croft & Pitner	Seeding, corn planter	1	22
Leonard, Brainard & Sizer	Moulds, casting iron, brass, &c	2	51
Leonard, Elkanah	Gauges of machines for sawing		278
Leonard, noch	Steel from pig iron	2	61
Leonard, Moses	Coffins, lodgments in, &c	22	357
Leonard, Nathan	Boots and shoes, pegging machine	16	295
Leonard, Samuel	Spark catcher		155
Leonard, Sylvanus	Horse power		255
Leonard, Sylvanus Leonard, William B	Thrashing machine	3	31 81
Leonard, William B	Loom, power, and taking up cloth, &c.	3	91
Leonard, William B	Spinning, railway, drawing head for.	12	241
Leonard, William B	Carding cotton	13	67
Leonard, William B	Cordage		70
Leonard, William B	Loom, power	3	81
Leonard, William B	Spinning, spindle and bobbin, for cotton		92
Lerned, Samuel	Spinning, roping, wool	3	92
Le Roy & Sanford	Saw strainer		276
Le Roy, Simon	Mortising machine	14	271
Le Roy, Tunis V	Heat, economy of, &c	-6	154
Lesh, Isaac N., and others	Steam generator, improvement in		162
Leslie, David	Chain, frame		41
Leslie, David	Chain, frame	2	[4]
Leslie, Robert	Bells	2	40
Leslie, Robert		8	186
Lealie, Robert		8	186
Leslie, Robert	Pendulum for clocks	2	186 52
Lesner, William W	Nails from heated rods		269
Lesner, W. W	Pump, forcing	ii	226
Lester, Ebenezer	Washing machine	17	316
Lester, Ebenezer	Fireplace	5	126
Lester, Eb		2	51
Lester, E		_	58
Lester, Ebenezer A	Water wheel		230
Lester, Ebenezer A	Steam engine, vibrating	6	162
Lester, Ebenezer A	Wheels, cast iron, railroad	10	213
Lester, Ebenezer A	Gin, cotton frame	3	75
Lester, Ebenezer A	Coaches, panels	1 10	209
Lester, Ebenezer A	Boilers, steam	5	151
Lester, Ebenezer A	Nails, cutting, vibrating machine	6	162
Lester, Ebenezer A	Sugar, manufacturing from cane juice	4	107
Lester, Ebenezer A	Naus, vertical balance wheel for cutting	2	160
Lester, Ebenezer A	Steam, generating, gas, &c	6	162 157

PATENTES,	SHVENTIONS OR DISCOVERISM.	CLASS.	PAGE.
Issuer, Ebenezer A	Nails, cylindrical vibrating machine	2	
Lester, John H	Staves, barrel, dressing and jointing	14	98
Letton, Ralph.	Steam, propelling boats	6	捕
Lete, Nicholas A	MusicLoom, figure cloth	18 3	86
Levan, George.	Yarn, doubling, twisting, and recling.	3	94
Leveridge, Walter	Gum, Senegal, substitute for	4	100
Lewis, Benjamin J.	Garments, marking out and cutting.	3	A
Lewis, Clark.	Water wheel	21 11	361 231
Lewis, David, jr	Cutting grass and grain	ī	11
Lewis, F. C.	Loom, power	3	81
Lewis, H. L. B.	Water wheel, reacting	11 5	235 139
Lewis, H. L. B.	Table, caloric, dining	17	363
Lewis, H. L. B	Propelling, paddle wheels, lock, canal	7	174
Lewis, Ichabod	Chairs, machine	17	310
Lewis, Isaiah W. P	Hydraulic structures	9	196 155
Lewis, James	Stoves, cooking	5	141
Lewis, John	Furnaces, portable	5	128
Lewis, John	Stoves heating irons toil ore and betters	13	250 145
Lewis, Jos. S.	Stoves, heating irons, tailors and hatters Ornamental borders, casting	5 18	394
Lewis, Lemuel	Plumb, balance and pendulum	8	186
Lewis & Lewis	Wind wheel, horizontal	11	236
Lewis, IsaacLewis, Lovell	Straw cutter	5	96 120
Lewis, Marshall	Bridges, wooden, canals	9	192
Lewis, Marshall	Saw mills	14	274
Lewis, Nathan	Spinning wheel, small.	8	94
Lewis, Nathaniel H	Blocks, sheaves	17	167 310
Lewis, R. B		3	85
Lewis, Seth.		15	285
Lewis, S. H.—see Adams, J. W.	Spinning throatle spindle		00
Lewis & Taylor Lewis, Thomas C	Iron, malleable, from pig	3	93 47
Lewis, Thomas J. and George F	Seeding, seed planters	ĭ	23
Lewis, Thomas J. and George F	Seeding, seed planters	1	23
Lewis, WebsterLewis, William	Pills, machine for making Ovens, tin, bake	5	113 135
Lewis, William	Blasting rocks, fuse for	9	191
Lewis, William, and William H	Boots, &c., heel plates for	16	284
Lewis, William J		4	115
Lewis, William JLewis, William J	Salt, manufacturing	7	115 174
Lewis, William S	Thrashing and grinding grain	i	26
Lewis, W. T-see Morse, L.	1	1	
Lewis, Winslow, sr., and Benjamin Hem- menway		ایا	190
Lewis, Winslow	Lamp, light-house		139 133
Lewis, Winslow	Lamps	5	131
L'Hommedieu, Ezra.	Lantern, reflecting and magnifying	.5	134
L'Hommedieu, Ezra	Auger, single-twist	14	265- 265-
L'Hommedieu, Ezra	Gimlet	14	268
L'Hommedieu, Ezra,	Hammer, spikes, &c., sharpening	1 2 1	45
L'Hommedieu, Ezra L'Hommedieu, Ezra	Auger or bit	14 14	265 265
L'Hommedieu & Watrous	Auger, double iwisted	14	265 265
Lichtenthaeler, Samuel	Shutters, opening and fastening.	9 1	60
Little, John	Cooking stove	5 1	139
Liddle, William	orausers and discuit, cutting	17 /	318

INDEE.

	- 100		
PATENTICS.	myentions or discounting.	CLASS.	PAGE.
Liebenau, Heary	Monuments, plates, casting	9	-61
Lies, Bennet	Pump, pendulum, and cog	11	- 297
Lies, Bennet	Pump, sea, motion	11	347 169
Lies, Bennet	Boats, rocking or lever	8	105 186
Lies, Bennet	Ladder, confingration	29	368
Lighthall William	Steam engine	6	157
Lighthall, William A	Steam engine, marine	6	150
Lighthall, William. Lighthall, William A. Lighthall, William A.	Steam engine, cut-off valves	6	160
Lillie, William	Bellows, double	11	219
Lillie, William	Splitting skins, machine for	16	301
Lincoln, Annes A	Stove, (design)	5	137
Lincoln, Jesse	Thrashing machine, &c	1	33
Lincoln, Levi	Redstands auting servers &c	11 17	308
Lindly, Jacob	Bedsteads, cutting screws, &c Bedstead rails, cutting screws on ends		309
Lindly, Jacob	Chura	i	7
Lindley, N. H., and W. Perry	Charns	i	Ŧ
Lindsay, James	Sawing, circular, timber	14	277
Lindsey, Ichabod	Curriers' beam, &c	16	296
Lindsey, Jacob	Washing machine	17	316
Lindsey, Noah	Thrashing machine	1	30
Lindsay, Noah	Corn sheller	1	8
Lindsey, Amos	Bark mill	13	250
Lineback, John	Hulling cotton seed	1	14
Ling, Thomas	Churn and washing machine Churn	1	Ř
Ling, ThomasLinnell, Jonathan, jr	Paint, mixing	i	113
Lippart, Frederick	Engine, hydraulic	11	222
Lippincott & Hillyear	Tanning hides	16	302
Lippitt, Abraham	Water wheel, horizontal	11	233
Lister, Eben	Washing machine	17	314
Little, Alverson	Corn sheller		8
Little, Archibald	Spoons, manufacturing		61
Little, DavidLittle, David	Carriages, disengaging horses from	10 5	208
Little, David and E. Z.	Carriage steps	2	139 41
Little, James H	Washing machine	17	317
Little, Joseph	Casks	14	267
Little, Samuel H	Horse power	13	256
Littlefield, Theodore L	Locks or latch for doors	2	50
Littlejohn, W.—see Gordon C.			
Littliboy, Maulby J	Combs, teeth, cutting of	21	351
Littliboy, Maulby J	Winnowing grain		350
Litzenberger, JohnLivingston, Franklin	Canals, locks, gate	·1 9	34 19 3
Livingston, Gilbert	Keels of vessels	7	170
Livingston, L. R., J. J. Reggen, and C.		·	
Adams	Latches, fastening	2	48
Livingston, Lawreston R. and C. Adams.	Coffee mill, &c	13	250
Livingston, Robert M	Cotton, cleaning	3	71
Livingston, Robert R	Paper, making	3	84
Livingston, R. R. Livingston, Robert R.	Spinning, spindle, diminishing friction Propelling paddles and chain wheels.	3	92
Livingston, Roggen and Adams	Door knobs, shanks for		174 41
Livingston, Roggen, Adams, Phillips, and	POOT WITCHES DUSTRIES POET 1 0.0 % 00.0 0 0 0 0	~	41
Phillips.	Door and other knobs, &c	2	41
Livermore, Daniel	Engine, hydrostatic		222
Liversidge, W. and T	Starch, rice	4	117
Lize, Louis	Steam engine, &c., governor, &c	6	158
Lloyd & Bartenheimer	Brewing apparatus	4	100
Lloyd, Charles C.—see Stuart D.	Programatic machine		994
Lloyd, David		11 4	224 115
)		

PATENTERS.	INVENTIONS OR DISCOVERIGE	CLASS.	PAGE.
Lloyd, Joseph	Churn	1	5
Lloyd, Nicholas	Styve	5	136
Lloyd. Robert	Loom, weaving girth cloth	3	83
Lobdell, E. and T. J	Grappling irons	7	170
Lobdell. John	Seeding, corn planter	1	22
Locker, Hy. C., administrator of Henry	Ti	10	201
Locker, deceased	Tanning	16 6	301
Locke, Edward	Steam engine, exhausting case of Smoke, consuming	5	161 135
Locklin, NathanLocklin, Nathan	Plough	ĭ	18
Lockwood, Charles, and others	Fur, separating from hair	3	75
Lockwood, David C	Excavating earth	9	195
Lockwood, John	Steam, applying	6	156
Lockwood and Loveland	Engine, fire	11	221
Lodge & Cox	Breaking stone, for turnpikes	9	191
Lomax, Abel, and Asahel	Winnowing machine	1	35
Lombaert, Charles	Railroad, cleaning the tracks	9 17	198
Lombard, James	Washing machine Planing boards	14	317 272
Lombard, JosephLombard, Nathaniel K	Maps, charts, &c., apparatus for	8	185
Long, Charity S	Consumption, &c., curing	4	103
Long, George W	Bridges, frame	9	192
Long, G. W	Pump, steam	6	154
Long & Hauts	Engine, hydrostatic and steam	11	222
Long, Israel	Plough	1 1	21
Long, James	Harpoon	7	170
Long, James	Hats, napping	3 7	76
Long, John H	Boats, canal Bridges, wooden frame brace	9	168
Long, Stephen HLong, Stephen H	Bridges, wooden frame suspension	9	192
Long, Stephen H	Bridges, frame	9	192
Long, S. H	Steam engine, locomotive	6	158
Long, S. H	Steam engine, locomotive and cars	6	159
Long, S. H	Steam engine, locomotive, force pump		159
Long, S. H	Boilers, steam, wheels for locomotives		159
Long, S. H	Valve for locomotive engines	6	163
Long, Stephen H	Window sash, raising	9	192 201
Long, William Longanecker & Myers		14	268
Longhead & Chapman		6	153
Longley & Davis	Flax and hemp, breaking and cleaning		79
Longmire, Francis B. and H. J. Brooke.	Steam engine, locomotive, consuming		1
- 0	sparks	6	159
Longwell, Math	Boilers, steam engine	6	152
Loofborrow, Isaac	Washing machine, and scouring	17	318
Look, Abel	Winnowing grain, rice, &c	10	213
Look, Abel	Wheels, car, curved railroads	i	34
Loomis, John	Shingle machine	14	278
Loomis & Millington	Washing machine	17	314
Loomis, Theodorus	Water wheel	11	231
Loomis, William	Churn	1	6
Loomis, William	Power, helping	13	250
Loomis, William	Thrashing clover seed	1	27
Loomis, William	Thrashing machine		29
Loomis, William	Hulling clover seed	1 19	13 335
Loper, Richard F	Propelling propeller, rotary inclied,&c.	7	175
Loper, Richard F	Propelling propeller, submerged, &c	7	175
Loper, R. F	Steam engine	6	157
Loper, R. F	Propellers, elevating and depressing of	7	179
Lord. Alanson, D	Washing machine	17	316
Lord, Samuel P., jr	Fire, extinguishing	5	126
Lorillard, Peter	Tobacco, cutting, machine for	22	359

Patenters.	inventions or discoveries.	CLASS.	PAGE.
Lorillard, Peter.	Tobacco, manufacturing	22	35\$
Loring, Daniel	Balance, weighing canal boats, wa- gons, &c	12	240
Loring, David	Spinning wheel, heads	3	93
Loring, David	Water wheel	11 2	230 46
Loring, ThomasLosey, Eleazer L	Hinges, flask, for moulding Steel, converting iron partially into	2	61
Lossing, Peter	Kiln, lime	15	288
Lothian, George B	Types, music, cutting and casting	18	329
Lothian, George B	Types, moulds	18 5	329 143
Lothrop, John L	Stoves and fireplace	5	144
Loud, Edward	Washboard, fluting, &c	14	282
Loud, Thomas	Piano forte, action of	18	325
Loud, ThomasLoud, Thomas	Piano forte, compensating tubes Piano forte, shifting movement for, &c	18 18	325 326
Loud, Thomas, jr	Piano forte, horizontal	18	326
Loudon, John, and Thomas Shaw	Hats, equalizing nap, &c	3	77
Loudon, John, jr:	Wheel hubs, carriage, attachi'g to axles	10 18	214 324
Lounds, Jacob J	Felting and fulling	3	71
Lovatt, John	Stoves, Lehigh coal	5	145
Lovatt, John	Distilleries, boilers, anthracite coal,		-0-
Toro Tohn	setting for	5	107 133
Love, JohnLove, John	Lamps, tallow, &c	17	310
Lovejoy, Benjamin	Thrashing and cleaning grain	1	27
Lovell & Jackson	Loom	3	.80
Loveland, Eleazer DLoveland, J. C.—see Wood, W. A.	Stove, hot air	5.	145
Loveridge, Richard	Plough	1	17
Lovett, George	Preserving timber under water	7	171
Low, Charles	Steel and iron, manufacture of	2	61
Low, Chollar, and Jones, assignees of Ezra Ripley	Stove, design for	5	136
Low, Francis L., and John S. Leake	Cooking stoves	5	141
Low, Jonathan	Cooking store	5.	138
Low, PeterLowe, John	Stove, cooking, design for Bedsteads, alleviator	5 17	142 308
Lowe, John	Bedsteads, alleviator	17	308
Lowe, Gilbert D	Interest tables	8	185
Lowber, Robert W., assignee of Keeland,	Lad nines, tinning of	4	109
Selden, and Ward Lowber, William	Led pipes, tinning of	4	118
Lowell, Gideon	Washing machine	17	316
Lowell, Philip S	Churn	7	178
Lowerie, William R	Propelling boats, machinery for Dock, floating, dry	9	17 3 19 3
Lowery, Samuel	Brick, machine for making	15	285
Lowndes, David	Liquor, cooling	4	110
Lowner, David	Pipes, fire, securing from frost	11 19	224 335
Lowry, James B	Locks, percussion, magazine		274
Lozarus, Simon	Cordial, anti-bilious	4	104
Lucas, Jonathan	Flood gate	11	222
Lucas, Jonathan	Halling and cleaning rice	1 1	15 14
Lucas, Lewis	Boots, crimping	16	293
Lucas, Lewis Luckey, James	Straw, cutting, hay, &c., horizontal	1	26
Luckey, James	Washing machine, and heating water.	17	318 26
Luckey, JamesLudlow, Ezra	Cellars, vaults, &c	9	193
Ludlow, Ezra	Vaults, &c		901
	·	1	j

PATENTEES.	INVENTIONS OR DISCOVERED	CLASS.	PAGE.
Ladlum, James M	Shot, menufacturing, tabulated cylin-	10	343
Lukens, Ephraim	Washing machine	17	31
Lukens, Israel	Thrashing machine	1	3
Lukens, William E	Hulling clover seed	20	34
Lukins, Isaiah Lull, Harvey	Flax and hemp, breaking	3	7
Leall, Orrin	Hulling grain, and cleaning	1	14
Lull, Orrin.	Smut machine	1	29
Lundy, ElenzerLupton, Janney & Lupton	Boots, crimping, Suwarrow Thrashing machine	16	291
Lupton, John	Plough, angular	ī	19
Luscomb, Robert	Planing boards, &c	14	272
Lusk, James	Distilling	2	104 51
Lutgen, HenryLuther, Harvey	Nails, cutting	17	319
Luther, John	Coffee mill	18	250
Luther, John	Screws, metallic	2 1	56 318
Luther, SethLuther and Smith, assigned to Daniel	Writing desk	17	910
Renner	Tanning.	16	301
Lyman, Elbridge	Tenoning and mortising machine	14	901
Lynch, James H	Cooking store	3	75 141
Lyon, James HLyon, Charles	Cooking stove	4	103
	•	- 1	
Maag, John B	Balance, platform	12	129
Maccaud, Etienne.	Gas burners.	5	198
Maccauley, Isaac	Oil cloth manufacture	3	85
Mace, Wandle	Mortising posts, &c	2	970 46
Macey, Chas. R	Corks, cutting	14	267
Macgregor, James, jr	Bomb, submarine or mine	19	333
Macgregor, James, jr	Stoves, for heating apartments	5	144 93 0
Mack, Elisha	Beehive	11	3
Mackay, James	Composition for the hair	4	102
Mackay, John	Painting, fret	18	334
Mackay, John	Piano forte, hammer heads, &c	18	39 6 39
Mackie, Patrick.	Axes, hoes, &c	4	101
Mackie, Patrick	Caoutchouc, dissolving	4	101
Mackintosh, John	Vessels used as life-preservers	7 9	179 63
	Lamp wicks, tubes for	5	134
Macolin, D	Lotteries, drawing	8	185
Macomb, James	Water wheel, horizontal	11	239 243
Macomber, E. and L. L	Air flue, descending	19 5	123
	Composition for stiffening hats	4	143
Macomber, Laban L	Caps, manufacturing, &c	21	358 359
Madden, John.	Tobacco leaves, straightening Carriages, detacking horses from	22	986
Madison, Asa	Water wheel, &c	ii	995
Madison, Channing	Lathe, sawing	14	363
	States, manufacturing	15 96	990 952
Maffet, Joseph.	Tobacco, cigar fillers, &c	22	359
Magaw, William	Paper, making	3	86
Magennis, Patrick	Lamps, compound spirit or oil, burn'g	5	139 197
	Dying, art of	11	990
Magera, Levi		19	333

PATRITING.	ENVENTIONS OR DISCOVERING.	CLASS.	PAGE.
Magini, Joseph	Fireplace	5	10
Magoun, Joseph	Glass, pressing in moulds	15	系
Maguire, John	Hats, manufacture of	3	31
Magrath, Patrick	Dams, river, &c	9	19
Maguire, Jonas	Bedstead	17	30
Maillard, Lucien	Boilers, steam, furnaces of, &c	6	15
Makely, Jacob D	Wind wheel	11	23
Maifeason, Bernard J Mallory, James	Carriage	10 5	20 13
Mallory, James	Kettles, sugar, setting	5	13
Mallory, Meredith	Water power to machinery	11	22
Mallory, Meredith	Smut machine	î	7
Mallory, Meredith	Propelling boats, method of	7	17
Mallory and Miles	Iron, cast, uniting with steel, &c	2	1
Mallory, Ogden	Steam engine, feeder for boiler	Ĩ.	15
Mallory, Samuel	Rut shears, for repairing roads	9	20
Malthy, Benjamin	Thrashing machine	1	3
Maltby, Benjamin	Horse power	13	25
∡altby, Benjamin		3	8
Maltby, B. K., and Jesse Neal	Lamp, lard	5	13
Malthy and Fowler	Hulling grain	1	li
Malthy and Fowler	Hulling grain, &c	1	1
Maltby, James	Rakes, herse	1	2
Man, Arlon	Condensing cotton	12	24
Lanchester, Job	Bobbin tube	3	€
Landell, D. J	Inkstand, manufacture of	18	32
Mane, Honore	Brick moulding	15	26
Mangin, Joseph F	Marble, cutting	15	28
Mangin, Joseph F	Marble, sawing	15	28
Manley, Gervase B	Nails, wrought	2	5
Manlove, John G	Saddles, springs	16	29
Mann, George, jr	Smut machine, cleaning grain	1	2
Mann and Hill	Brick frame	15	26
Mann, Jonathan	Skiving sheep aking, &c	16	30 15
Mann and Thying	Steam engine, locomotive	6	32
Mann, William	Files for filing papers, &c	18 2	4
Manners, Robert C	Guide post		19
Manners, Robert C	Lithography, applied, to reprint'g books		32
Manning, Cephas.		14	28
Manning, Cephas	Grist mill, &c	13	25
Manning, Cephas	Staves, cutting	18	32
Manning, Cephas	Staves, cutting	18	32
Manning, James	Winnowing clover seed	ī	3
Manning, James B	Lektography	18	32
Manning, John	Raising water	11	22
Manning, Nathaniel L	Feathers, drying, whipping, &c	17	31
Manning, William	Cutting grain	1	1
Manning, William	Corn shellers	1	٠.
Manning, William	Hulling clover seed	1	1
Manny, Gabriel		7	17
Mans & Black	Mill works	13	25
Mans, L. H.		2	5
Lans, Lewis H	Thrashing machine	1	3
Mansey, James	Tobacco, manufactur'g by machinery	22	35
Mansfield, Levi	Fireplace	5	12
Mansfield, William H	Hulling clover seed and rice	1	1
Mansfield, Richard	Mill	15	26
Manter, Grafton	Jos mode of obtaining and marries	13	25
Manuel, Joseph E	Delling will	22	35
Many, William V	Legis door newsystation for moultante	2	5
Maples, Darius W	Francisco liquida hy steem	4	10
representation of and william A. Cox.,	TOTAL POTENTIES INQUITED UY SUCCESSION		. 19

PATENTEES.	INVENTIONS OR DISCOVERIDE.	CLASS.	PACE
Marble, Eleazer	Stump, extracting	9	200
Marble, Luke	Cutting sole leather, knife, &c	16	256
March, John	Cigars, self-igniting	4	103
March, William	Water wheel, double centre	11	293
Marchand, Lewis	Propelling boats by revolving lever	7	173
Marchand, Louis	Power, safety engine	13	200
Marden, Jesse	Balance, platform, scale for weighing.	12	239
Marden, Richard	Vitriol, oil of	4	119
Mardock, Thomas	Saddles, spring	16	239
Marentille, A. Du Buc	Raft, wreck	7	176
Marentille, Ab Du Buc	Boats, insubmersible	7 1	168
Marentille, Ab Du Buc	Chair, marine	7	169
Mark, Elisha	Flax, dressing	3	.73
Mark, John H	Glue, manufacturing	4	108
Markham, Bela	Sleigh, traverse	10	210
Markham, Daniel	Oil, poppy seed	4	113
Markham, Jno. S., as'e of E. G. Matthews		2	62
Markland, William	Tops, pepper and ink	2	62
Marks, William B	Thrashing machine	17	30
Marquam, Edward	Fan for house	17	312
Marsh, D.—see Nichols, Eli B. Marsh, Ebenezer	Candles from castor oil	3	100
Marsh, Elias	Crane	12	240
Marsh, Henry	Mortising machine	14	270
Marsh, James S., and Asa Munger	Heating water, &c	5	130
Marsh, Johnson	Lock, gun and pistol	19	335
Marsh, Richardson, and N. W. Tileston		10	303
—see Hews.		- 1	
Marsh, Seymour	Truss	20	344
Marsh, Seymour—see White, J.			
Marsh, Stephen	Napping cloth	3	84
Marsh, Stephen	Napping cloth	3	84
Marsh, Thomas	Timber, fire wood, &c., cross cutting.	14	961
Marsh, William E	Mortising machine	14	270
Marshall, Alexander	Saddles	16	299
Marshall, Benjamin	Bath, steam, medicated	20	341
Marshall, Benjamin	Mineral water	4	111
Marshall and Coburn	Cultivator, &c	1	10
Marshall, John, jr	Thrashing machine	1	31
Marshall and Johnson		3	74
Marshall, Mallory M	Straw cutting, box	1	26
Marshall, Moses H	Block sheaves, bushing and pins for	6	167
Marshall, Samuel	Boots and shoes, cutting	16	294
Marshall and Smith	Plough	1	16
Marshall, William, and J. B. Thursby	Hides, raw, cutting	16	296
Marston, Obed R	Power, propelling mills by weights	13	260
Marston, William P	Tobacco, machine for rolling	22	359
Marston, William W	Printing press	18	328
Martelly, Lewis	Coffee extractor	5	124
Martin, Anthony D	Manure, &c	1	15
Martin, Anthony B	Stoves	5	136
Martin, Benjamin B	Tailors' measures	20	354
Martin and Chapin	Winnowing wheat, &c		36
Martin, Ebenezer	Boots and shoes, manufacturing	16	294
Martin, Edwin	Awl hafts	8	39-
Martin, Granville	Fork, four tines	.1	11
Martin, Israel	Mattresses, seamen's beds	17	315
Martin, James	Corn, grinding, &c	13	251
Martin, Jeremiah	Lamps and lamp tubes	.5	133
Martin, John	Water wheel, tide and current, &c	11	235 170
Martin, John	Propelling boats	7 12	172 242
	I FIRMS CHECKE, BEHARCURY	1.5	A94
Martin, Joseph T	Dock, floating dry	9	194

PATANTEEA.	inventions of discovering.	CLASS.	PAGE.
Martin, Joseph—see Hubball, E.			
Martin, Levi	Press, cheese	12	241 174
Martin, Moses	Propelling boats by weights Saddles, elastic seat	16	299
Martin, Prosper	Floating batteries	7	170
Martin, Robert	Beehives	i	3
Martin, Robert C	Trunks	16	303
Martin, Thomas C	Thrashing machine	1	28
Martin, William	Canal locks, &c	.9	193
Martineau, Eliza, (administratrix of John	Press, cotton and hay	12	243
Martineau, deceased)	Water wheel	11	231 199
Martineau, John	Roads, &c., of composition	13	255
Mariz, P. M	Planing machine	14	272
Marvin, Dudley		9	195
Marvin, Dudley	Excavating inclined plane	9	196
Marvin, Dudley	Furnace, heating tire	2	44
Marvin, Dudley	Horse power	13	255
Marvin, Dudley, and Oran W. Seely	Boilers, steam for cooking, &c	5	123
Marx, Ernest			221 321
Mason and Baldwin	Biting figures on steel	18 11	224
Mason, Belden B., and Mathews Joslyn.		9	200
Mason, Benjamin F	Crackers & biscuits, making & baking		310
Mason, David H	Ornamental rolls and stamps, &c	18	324
Mason, David H	Counterfeit figure, lathe to prevent	18	322
Mason, David H	Engraving and printing, &c	18	322
Mason, David H	Tanning by machinery	16	302
Mason, Emerald	Nails, cutting, &c	3	52 68
Mason, John	Carding engine, caps for feeding	i	10
Mason, John	Screws, cutting, &c	2	52
Mason, Joseph	Stocks, Columbian	20	353
Masten, Lemuel V. and C	Smut machine		23
Mason, Maynadier	Iron borings, &c	2	46
Mason, Samuel P		3	95 92
Mason, Samuel P	Spinning, speeder, &c	3	89
Mason, Samuel P			82
Mason, Silas	Hats, manufacture	3	77
Mason, William			92
Mason, William	Hemp, break		78
Mason, William		3	91
Mason, William	Mule, self-acting	3 17	84 317
Masser, H. B	Washing machine	1	311
Mather, Jos. H.	Lamps, of wood		134
Mather, Sarah P	Telescope, submarine, &c	1 -	187
Mathes, Allen H	Pump, suction		227
Mathes, John			84
Mathews, Heman		3	87
Mathews, James		3 2	90
Mathews, James	Fire-proof chest	. ~	250
Mathews, John			268
Mathews, John			268
Mathews & Kable	Hulling clover seed, &c	1	13 33
Mathewes, William	Thrashing machine for rice, &c		
Mathies, J. L. D			134 155
Matthews, David			133
Matthews, Alexander			105
	91	1 -	

PATEMERS.	ENVENTIONS OR DISCOURTES.	CLASS.	PAG
Matthews, Anson	Buttons, moulds, wooden	94	
Matthews, E. G.—see Ruggles & others.			ĺ
atthews, Heman	Buttens, machine for finishing, &c	21	1
atthews, Heman	Buttons, machine for making wire	0.1	Ì
	neck, &c	21	!
Matthews, John	Clay, tempering	15	1
Matthew, Louis	Marble, granite, &c., artificial	4	
fatthey, Louis	Composition of marble, &c	16	
fauthews, M	Boots, trees	10	
fatthias, John	Thrashing machine	20	
fattson, Morris, M. D	Bath, medicated vapor	4	
fauck, Robert	Rectifying spirits	13	- 3
fauck, Robert	Bolt, flaw	6	i
fauldslay, Joseph, and J. Field.	Steam engine, marine	7	í
Caull, James	Ships, sails for	18	3
Aaverick, Andrew	Ink, distributing, &c	ii	3
Laxson, John	Water wheel, tide	18 [3
	Ink, distributor, &c	18	3
Iaxwell, Hugh	Plough, improved mould band for	1	•
Iay, Harvey H	Plough	ī	
lay, Henry K	Plough	9	9
Lay, John M		ĭ	
lay, John M	Plough, improvement in	īl	4
Iay, Oliver N	Grist mill.	13	2
Iny, Oliver N	Shingle, sawed, &c	14	2
Lay, Samuel	Seine, fishing	22	35
layer, William	Gate, water, balanca	11	22
layfield, Isaac	Straw cutter	1	1
ayfield, Thomas	Thrashing machine	1	1
fayhew, Trueman F	Hats, bowing, &c	3	T
[aynard, Edward	Gun locks and percussion primer	19	33
faynard, John	Steam engine	6	15
layo, Eb	Washing machine	17	31
Iayo, Ephraim	Brick press	15	90
Iayo, Ephraim		15	20
layo, John K	Saw, circular, manner of applying	14	21
layo, James C	Saw mill, portable	14	27
layo and Mills	Ventilating houses	5	10
Iayo, Robert	Grates, reverberating	5	15
layo, Robert,	Fire draught, &c	5	12
layo, William	Corn, grinding	13	252
laze, John	Water wheel, vertical	11	215
lead and Cutal	Mortising machine	14	100
lead, Henry	Chaire completely	17	310
lead, John	Chairs, convalescing.	17	314
lead, John	Chairs, reclining	17	311
lead, John	Couch, accommodation	18	324
lead, John	Cosches accommodation	10	9
lead, J., and A. W. Pierson, executers	Coaches, accommodation		
of W. Pierson		14	90
lead and Kitchell	Atmospheric engines, &c.	6	151
lead and Richards	Dies, metal.	2	U
lead, Whitman	Paint, &c.	4	113
lead, William	Raising water, &c.	11	22
lead, William	Mineral water	4	111
lecay, John	Water wheel		233
ecesne, Lewis		4	113
ledberry & Kellogg			335
ledeira, George A	Tools, holding, &c	2	4
ledley, Heuben	Grist mill	13	253 270
dedley, Reuben	Mortising, &c	14	27
	I NO DELIGIO OF CALC	14 (س ۲۲

The state of the s	INVENTIONS OR DISCOVERISE.	CLASS.	PAGE
PATESTRES.	INVENTIONS OR DISCOVERED.	0,000	
Medley, R. and P., and D. Altenderfer.	Plough, double	1	99
Meech, Charles L.	Plough	1	19
Meeds, Elwood	Pencil, ever-pointed, lead	18	204
Meeker, Benjamin	Cutting meat.	17	341 176
Meeker and Bergen	Raising vessels, &c	18	296
Meer, John.	Book binding	18	391
Mett. Joseph J	Nails, manufacturing	2	58
Meginais, William E	Cordage, long, manufacturing	8	70
Meigs and Arnold	Seeding, potatoea, &c	1	28 271
Meigs, Phinehas	Plane, carpentera'	14	83
Mellish, Henry	Wagon, hanging	10	212
Mellish, Henry	Tenoning machine	14	290
Mellish, Henry	Lathe, for carts	14	268
Mellish, Henry	Mortising machine	14	270
Mellish Henry	Setting logs on block-head	17	278
Melsheimer, William	Setting logs on block-head Stove, cooking	5	140
Mellus, William	Nails and brads, covering the heads of	2	58
Melville, David	Lamps, argand	5	131
Melville, David	Lampe, gas	5	132
Molville, David	Lemps, gas	. 5	139
Melvin Tohn	Flax and hemp machine	i	78
Melvin, John	Moulding pottery	15	290
Mencely, James.	Locks.	2	54
Monefee, John	Brick machine, manufacturing	15	286
Mendenhall, James	Garments, measuring for	21	359
Mendenhall, Moses	Grist mill	13	252 230
Mercer, Carey S	Corn sheller and hulling grain	11	201
Morcer, John	Incline planes, &c	9	197
Morcer, J.—see Greenwood, J.	,	2	50
Merchant, Hiram R	Seeding, sowing, &c	1	23
Merchant, Hiram R. and Orin G	Seeding, planting corn	,1	20
Merchant, Samuel	Spindle and bush	13 10	260 211
Merian, Lauren	Buttons, turning	21	340
Merot, Charles	Alembic	4	94
Merrell, Horace	Saw mills	14	274
Merriam, Reuben	Cards, cut, prick and set	3	60
Merriam, T. P.	Composition for preserving leather	20	196
Merriam, William	Stock, frames of hair	16	284
Merrick, George—see White, William.	Tractices, carring a		-
Merrick, Stephen	Wheel on inclined shaft	13	261
Merrick, Solyman	Wrench, rack	2	G
Merrick, Solyman	Wrench, screw	2	56
Merrick, Solyman	Punch, revolving spring	2	54
Merrick, Solyman, (assignee of Jabez C.	Screws, machine for custoff postes on.	~	_
Terry)	Rack wrench	2	56
Merrick, S. V., and John H. Towne,			
(assigness of M. Killienx)	Sugar Works	4	116
Merrill, Batchellor, and King	Spinning machine	3 11	91
Merrill, Edward	Hydrostatic pressLever crank, &c., combination of		24
Merrill, Fred. B	Chandelier, of salt crystalized		124
Merrill, Joseph	Leg and thigh, extending	20	342
Merrill, Mervin	Sugar moulds	4	110
Merrill, Pardon H		11	13 230
Merril, William Merriman, Charles	Washing machine	17	317
	1 		

Merriman, Marcus, jr. Window fastening. 2 6	PATENTERS.	inventions or discoveries.	CLASS.	PAGE.
Merriman, Marcus, jr. Window fastening. 2 6	Merriman, Charles	. Churn.	1	ÿ
Merriman, Marcus, Window fastening. 2 6				
Merriman, Marcus,				
Merritt, Oliver. Saw teeth, cutting. 2 5	Merriman Marcus ir	Window sash holt and spring		==
Merritt, Caleb.				= =
Merritt, Oliver. Shingles, sawing 14 277				
Merritt and Rodgers				
Merrit, William		Tooth asha policeing has steem		
Merroy and McKee. Powder, manufacturing 19 334				
Mervin, Andrew F. Saw teth, cutting. 2 257				
Mervin, Andrew T.		1 ~ '		
Merwine Andrew F				
Merwin and Kellogs				
Messenger, James W Sawing machine, cross cut. 14 277				286
Messer, James W. Sawing machine, cross cut. 14 297				84
Messer, Asa			17	309
Messer, Asa. Water wheel, &c. 11 232 232 2357	Messenger, James W		14	277
Messtayer, Benjamin. Bandboxes, machine for cutting. 22 357	Messer, Asa	. Flumes for mills	11	223
Mestayer, Benjamin. Bandboxes, machine for cutting. 22 357	Messer, Asa	. Water wheel, &c	11	232
Bandboxes, machine for cutting. 22 357	Messer, Frederick	. Composition for making hats	3	102
Mestayer, Benjamin.	Mestayer, Benjamin.	. Bandboxes, machine for cutting	22	357
Metcalf, Chandler.			3	85
Mettee, Martin				
Mettee, Martin Pumps 11 225			1 - 1	
Mettete, Martin Pumps 11 2925 313 318 Mettetal, G. D Sausages, making 17 313 318 Mewhinney, Johnson Churn 1 7 7 Micheles, George Sugar, manufacture of, from cane 4 117 318 Micheles, George Sugar, manufacture of, from cane 4 117 Micheles, George Sugar, manufacture of, from cane 4 117 Micheles, George Sugar, manufacture of, from cane 4 117 Micheles, George Sugar, manufacture of, from cane 4 118 Middekauft, Daniel S Cutting sausage meat 17 319 318 Middekauft, Daniel S Cutting sausage meat 17 319 318 Milholland, John, and B. Crane Bechives 1 233 Milholland, John, and B. Crane Bechives 1 3 3 3 3 3 3 3 3 3				
Mettetal, G. D. Sausages, making. 17 7 7 7 7 7 7 7 7				
Mewhinney, Johnson. Churn Michenor, Joseph Water wheel, and applying water to 1 233 Michiels, George Gas, improvement in the manufac. of 4 108 Michiels, George Gas, improvement in the manufac. of 4 108 Michiels, Covel G Steamboats, preventing from sinking. 7 177 Middlekauff, Daniel S Cutting sausage meat. 17 312 Miles, William Water wheel, current. 11 233 Miles, William Water wheel, current. 11 233 Milholland, James Springs for railroad cars 10 211 3 Milholland, John, and B. Crane Beehives 1 3 3 3 3 3 3 3 3 3		Sausages making		
Michelor, Joseph Water wheel, and applying water to. 11 239 Michiels, George. Sugar, manufacture of, from cane. 4 108 Michiels, George. Gas, improvement in the manufac. of. 4 108 Mickles, Lovel G. Steamboats, preventing from sinking. 7 177 Middlekauff, Daniel S. Cutting sausage meat. 17 312 Miller, Miller, Daniel S. Water wheel, current. 11 233 Milland, John, and B. Crane. Beehives. 10 211 Millard, Jra. Flax and hemp machine. 3 73 Miller, Amasa. Marine railway. 9 197 Miller, Benjamin. Steam engine, rotary. 6 16 Miller, Benjamin. Steam engine, rotary. 6 16 Miller, Benjamin. Store, dec. 16 303 Miller,		Churn		
Michiels, George Sugar, manufacture of, from cane 4 117				•
Michiels, George. Gas, improvement in the manufac. of. 4 108 Mickles, Lovel G. Steamboats, preventing from sinking. 7 177 Middlekauff, Daniel S. Cutting sausage meat. 17 312 Miles, William. Water wheel, current. 11 233 Milholland, James. Springs for railroad cars. 10 211 Millard, Jra. Beehives. 1 3 Millard, J. K. Water wheels. 11 232 Miller, Amasa. Marine railway. 9 197 Miller, Amasa. Marine railway. 9 197 Miller, Asa. Steam engine, rotary. 6 16 Miller, Benjamin. Spirits, proof. 4 117 Miller, Benjamin. Shoes, cutting. 16 300 Miller, Charles F. Trunks, fire and water proof. 16 303 Miller, Charles F. Composition, rendering leather water proof. 4 103 Miller, Daniel M. Window sāsh, fastening. 2 230 Miller, Ezra.<				
Mickles, Lovel G. Steamboats, preventing from sinking. 7 177 319 Middlekauff, Daniel S. Cutting sausage meat. 17 319 Milles, William. Water wheel, current. 11 233 Milholland, James. Springs for railroad cars. 10 211 Milholland, John, and B. Crane Beehives. 1 3 Millard, Ira. Flax and hemp machine. 3 7 Miller, Amasa. Marine railway. 9 197 Miller, Amasa. Marine railway. 9 197 Miller, Amasa. Marine railway. 9 197 Miller, Asa. Steam engine, rotary. 6 161 Miller, Benjamin. Spirits, proof. 4 117 Miller, Benjamin. Shoes, cutting. 16 300 Miller, Charles F. Trunks, fire and water proof. 16 303 Miller, Charles F. Tomposition, rendering leather water proof. 16 303 Miller, Chark, jr. Stone, &c., dressing. 15 290		Gog improvement in the manufact of		
Midledkauff, Daniel S. Cutting sausage meat. 17 312 Milles, William. Water wheel, current. 11 233 Milholland, James. Springs for railroad cars. 10 211 Milholland, John, and B. Crane. Beehives. 1 3 Millard, Ira. Flax and hemp machine. 3 73 Miller, Amasa. Marine railway. 9 197 Miller, Asa. Steam engine, rotary. 6 161 Miller, Benjamin. Shoes, cutting. 16 300 Miller, Benjamin. Shoes, cutting. 16 303 Miller, Charles F. Trunks, fire and water proof. 16 303 Miller, Charles F. Composition, rendering leather water proof	Wiekles Lavel G	Steemboots presenting from sinking		===
Water wheel, current. 11 233 11 233 11 233 11 233 11 233 11 233 11 233 11 233 11 233 234 234 234 234 234 234 234 234 234 234 235 2	Middlekanf Daniel S	Cutting sources most		
Milholland, James Springs for railroad cars 10 31 31 31 32 32 33 34 34 34 34 34				
Milholland, John, and B. Crane Beehives. 1 Millard, Ira. Flax and hemp machine. 3 Millerd, J. K. Water wheels. 11 Miller, Amasa. Marine railway. 9 Miller, Amasa. Marine railway. 9 Miller, Amasa. Marine railway. 9 Miller, Asa. Steam engine, rotary. 6 Miller, Asa. Steam engine, rotary. 6 Miller, Benjamin. Spirits, proof. 4 Miller, Benjamin. Shoes, cutting. 16 Miller, Benjamin. Boilers, steam, spiral flues for. 6 Miller, Charles F. Trunks, fire and water proof. 16 Miller, Charles F. Composition, rendering leather water proof. 16 Miller, Clark, jr. Stone, &c. dressing. 15 Miller, Daniel M. Window stah, fastening. 2 Miller, Daniel M. Pumps. 1 Miller, Ezra. Brick machine. 15 Miller, Ezra L. Boilers, steam, vertical. 6 Miller, Ezra L. Writing instrument. 18 Miller, Ezra L. Wheels,				27.7
Millard, Ira. Flax and hemp machine. 3 73 Miller, Amasa. Marine railway. 9 197 Miller, Amasa. Marine railway. 9 197 Miller, Amasa. Marine railway. 9 197 Miller, Amasa. Steam engine, rotary. 6 161 Miller, Asa. Steam engine, rotary. 6 161 Miller, Benjamin. Spirits, proof. 4 117 Miller, Benjamin. Shoes, cutting. 16 300 Miller, Benjamin. Shoes, cutting. 16 300 Miller, Charles F. Trunks, fire and water proof. 6 153 Miller, Charles F. Stone, &c., dressing. 15 290 Miller, Clark, jr. Stone, &c., dressing. 15 290 Miller, Daniel M. Window sāsh, fastening. 2 103 Miller, Ezra. Thrashing, &c. 1 26 Miller, Ezra. Thrashing, &c. 1 26 Miller, Ezra. Boilers, steam, vertical. 1 26 Miller, Ezra L. Writing instrument. 18				*II
Miller, J. K. Water wheels 11 232 Miller, Amasa. Marine railway 9 197 Miller and Andrews 1 28 Miller, Asa. Steam engine, rotary 6 161 Miller, Benjamin Spirits, proof 4 117 Miller, Benjamin Shoes, cutting 16 300 Miller, Benjamin J Boilers, steam, spiral flues for 6 153 Miller, Charles F Composition, rendering leather water proof 16 303 Miller, Charles F Composition, rendering leather water proof 4 103 Miller, Clark, jr Stone, &c., dressing 15 290 Miller and Clements Distilling still, boiler, &c 4 106 Miller, Daniel M Window sash, fastening 2 2 Miller, Ezra Thrashing, &c 1 26 Miller, Ezra L Boilers, steam, vertical 6				3
Müller, Amasa. Marine railway. 9 197 Miller, Amasa. Marine railway. 9 197 Miller, Amasa. Thrashing, &c				
Miller, Amasa Marine railway				
Miller and Andrews. Thrashing, &c. 1 28 Miller, Asa. Steam engine, rotary. 6 161 Miller, Benjamin. Spirits, proof. 4 117 Miller, Benjamin. Shoes, cutting. 16 300 Miller, Benjamin. Boilers, steam, spiral flues for. 6 153 Miller, Charles F. Trunks, fire and water proof. 16 303 Miller, Charles F. Composition, rendering leather water proof. 4 103 Miller, Clark, jr. Stone, &c., dressing. 15 290 Miller and Clements. Distilling still, boiler, &c. 4 106 Miller, Daniel M. Window sgsh, fastening. 2 63 Miller, Ezra. Thrashing, &c. 1 26 Miller, Ezra. Thrashing, &c. 1 26 Miller, Ezra. Boilers, steam, vertical. 6 15.3 Miller, Ezra L. Writing instrument. 18 339 Miller, Ezra L. Writing instrument. 18 339 Miller, Ezra L. Wheels, driving of locomotive engines, &c. 1 128 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
Miller, Asa. Steam engine, rotary. 6 161 Miller, Benjamin. Spirits, proof. 4 117 Miller, Benjamin. Shoes, cutting. 16 300 Miller, Benjamin. Boilers, steam, spiral flues for. 6 153 Miller, Charles F. Trunks, fire and water proof. 16 303 Miller, Charles F. Composition, rendering leather water proof. 4 103 Miller, Clark, jr. Stone, &c., dressing. 15 299 Miller and Clements. Distilling still, boiler, &c. 4 106 Miller, Daniel M. Window still, fastening. 2 63 Miller, Ezra. Thrashing, &c. 1 296 Miller, Ezra. Thrashing, &c. 1 296 Miller, Ezra. Boilers, steam, vertical. 6 153 Miller, Ezra L. Writing instrument. 18 339 Miller, Ezra L. Furnaces, boiler or burner. 1 128 Miller, Ezra L. Wheels, driving of locomotive engines, &c. 10 213 Miller, Ezra L. Seeding, planting corn, &c. 1 239 <td></td> <td>1 m</td> <td></td> <td></td>		1 m		
Miller, Benjamin		I hrashing, &c		
Miller, Benjamin. Shoes, cutting. 16 Miller, Benjamin. Boilers, steam, spiral flues for 16 Miller, Charles F. Trunks, fire and water proof. 16 Miller, Charles F. Composition, rendering leather water proof. 4 Miller, Clark, jr. Stone, &c., dressing. 15 Miller and Clements. Distilling still, boiler, &c. 4 Miller, Daniel M. Window sash, fastening. 2 Miller, Daniel M. Pumps. 11 Miller, Ezra. Brick machine. 15 Miller, Ezra. Brick machine. 15 Miller, Ezra L. Writing instrument. 18 Miller, Ezra L. Writing instrument. 18 Miller, Ezra L. Furnaces, hot water for warming buildings 5 Miller, Ezra L. Wheels, driving of locomotive engines, &c 1 Miller, Ezra L. Seeding, planting corn, &c. 1 Miller, Francis Joseph. Stop cocks. 11 Miller, Henry Raising water, &c. 11		. Steam engine, rotary	6	161
Miller, Benjamin J. Boilers, steam, spiral flues for. 6 153 Miller, Charles F. Trunks, fire and water proof. 16 303 Miller, Charles F. Composition, rendering leather water proof. 4 103 Miller, Clark, jr. Stone, &c., dressing. 15 290 Miller and Clements. Distilling still, boiler, &c. 4 106 Miller, Daniel M. Window sgsh, fastening. 2 63 Miller, Ezra. Thrashing, &c. 1 294 Miller, Ezra. Brick machine. 15 285 Miller, Ezra L. Boilers, steam, vertical. 6 153 Miller, Ezra L. Writing instrument. 18 339 Miller, Ezra L. Furnaces, hot water for warming buildings 5 109 Miller, Ezra L. Wheels, driving of locomotive engines, &c. 10 213 Miller, Ezra L. Seeding, planting corn, &c. 1 23 Miller, Francis Joseph. Stop cocks. 11 299 Miller, Henry Raising water, &c. 11 299			141	117
Miller, Charles F. Trunks, fire and water proof. 16 Miller, Charles F. Composition, rendering leather water proof. 4 Miller, Clark, jr. Stone, &c., dressing. 15 Miller and Clements. Distilling still, boiler, &c. 4 Miller, Daniel M. Window still, boiler, &c. 4 Miller, Ezra. Thrashing, &c. 1 Miller, Ezra. Brick machine. 15 Miller, Ezra L. Boilers, steam, vertical. 6 Miller, Ezra L. Writing instrument. 18 Miller, Ezra L. Furnaces, hot water for warming buildings. 5 Miller, Ezra L. Furnaces, boiler or burner. 1 Miller, Ezra L. Wheels, driving of locomotive engines, &c. 10 Miller, Ezra L. Seeding, planting corn, &c. 1 Miller, Francis Joseph. Stop cocks. 11 Miller, Henry Raising water, &c. 11			16	300
Miller, Charles F. Composition, rendering leather water proof. 4 Miller, Clark, jr. Stone, &c., dressing. 15 Miller and Clements. Distilling still, boiler, &c. 4 Miller, Daniel M. Window sash, fastening. 2 Miller, Daniel M. Pumps. 11 Miller, Ezra. Brick machine. 15 Miller, Ezra. Brick machine. 15 Miller, Ezra L. Boilers, steam, vertical. 6 Miller, Ezra L. Writing instrument. 18 Miller, Ezra L. Writing instrument. 18 Miller, Ezra L. Furnaces, boiler or burner. 1 Miller, Ezra L. Wheels, driving of locomotive engines, &c. 10 Miller, Ezra L. Seeding, planting corn, &c. 1 Miller, Francis Joseph. Stop cocks 11 Miller, Henry. Raising water, &c. 11	Miller, Benjamin J.	. Boilers, steam, spiral flues for	6	15 3
Distilling still, boiler, &c. 15 299	Miller, Charles F	. Trunks, fire and water proof	16	303
Miller, Clark, jr. Stone, &c., dressing. 15 290 Miller and Clements. Distilling still, boiler, &c. 4 106 Miller, Daniel M. Window sgsh, fastening. 2 63 Miller, Daniel M. Pumps. 11 294 Miller, Ezra. Thrashing, &c. 1 26 Miller, Ezra. Brick machine. 15 285 Miller, Ezra L. Boilers, steam, vertical. 6 153 Miller, Ezra L. Writing instrument. 18 339 Miller, Ezra L. Furnaces, hot water for warming buildings 5 109 Miller, Ezra L. Wheels, driving of locomotive engines, &c. 10 213 Miller, Ezra L. Seeding, planting corn, &c. 1 23 Miller, Francis Joseph. Stop cocks. 11 299 Miller, Henry Raising water, &c. 11 299	Miller, Charles F	. Composition, rendering leather water	1 1	
Miller, Clark, jr. Stone, &c., dressing. 15 290 Miller and Clements. Distilling still, boiler, &c. 4 106 Miller, Daniel M. Window sgsh, fastening. 2 63 Miller, Daniel M. Pumps. 11 294 Miller, Ezra. Thrashing, &c. 1 26 Miller, Ezra. Brick machine. 15 285 Miller, Ezra L Boilers, steam, vertical. 6 153 Miller, Ezra L Writing instrument. 18 339 Miller, Ezra L Furnaces, hot water for warming buildings 5 109 Miller, Ezra L Furnaces, boiler or burner. 1 128 Miller, Ezra L Wheels, driving of locomotive engines, &c. 10 213 Miller, Ezra L Seeding, planting corn, &c. 1 23 Miller, Francis Joseph. Stop cocks 11 299 Miller, Henry Raising water, &c. 11 299		proof	4 1	103
Miller and Clements Distilling still, boiler, &c. 4 106	Miller, Clark, jr	. Stone, &c., dressing	15	290
Miller, Daniel M. Window sgsh, fastening. 2 Miller, Daniel M. Pumps. 11 Miller, Ezra. Thrashing, &c. 1 Miller, Ezra. Brick machine. 15 Miller, Ezra L. Boilers, steam, vertical. 6 Miller, Ezra L. Writing instrument. 18 Miller, Ezra L. Furnaces, hot water for warming buildings. 5 Miller, Ezra L. Furnaces, boiler or burner. 1 Miller, Ezra L. Wheels, driving of locomotive engines, &c. 1 Miller, Ezra L. Seeding, planting corn, &c. 1 Miller, Francis Joseph. Stop cocks. 11 Miller, Henry. Raising water, &c. 11	Miller and Clements.			
Miller, Daniel M. Pumps. 11 294 Miller, Ezra. Thrashing, &c. 1 26 Miller, Ezra. Brick machine. 15 285 Miller, Ezra L. Boilers, steam, vertical. 6 153 Miller, Ezra L. Writing instrument. 18 329 Miller, Ezra L. Furnaces, hot water for warming buildings. 5 109 Miller, Ezra L. Furnaces, boiler or burner. 1 128 Miller, Ezra L. Wheels, driving of locomotive engines, &c. 10 213 Miller, Ezra L. Seeding, planting corn, &c. 1 23 Miller, Francis Joseph. Stop cocks. 11 299 Miller, Henry. Raising water, &c. 11 298				
Miller, Ezra. Thrashing, &c. 1 26 Miller, Ezra. Brick machine. 15 285 Miller, Ezra L Boilers, steam, vertical. 6 153 Miller, Ezra L Writing instrument. 18 339 Miller, Ezra L Furnaces, hot water for warming buildings 5 109 Miller, Ezra L Furnaces, boiler or burner. 1 128 Miller, Ezra L Wheels, driving of locomotive engines, &c. 10 213 Miller, Ezra L Seeding, planting corn, &c. 1 23 Miller, Francis Joseph. Stop cocks 11 239 Miller, Henry Raising water, &c. 11 299				
Miller, Ezra L Brick machine. 15 285 Miller, Ezra L Boilers, steam, vertical. 6 153 Miller, Ezra L Writing instrument. 18 Miller, Ezra L Furnaces, hot water for warming buildings. 5 109 Miller, Ezra L Furnaces, boiler or burner. 1 128 Miller, Ezra L Wheels, driving of locomotive engines, &c. 10 213 Miller, Ezra L Seeding, planting corn, &c. 1 23 Miller, Francis Joseph Stop cocks 11 239 Miller, Henry Raising water, &c. 11 298			1 - 1	
Miller, Ezra L Boilers, steam, vertical				
Writing instrument. 18 339	Miller, Ezra L	Roilers steam vertical	10	
Furnaces, hot water for warming buildings 5 109	Miller, Ezra I.	Writing instrument	10	
Miller, Ezra L 5 109 Miller, Ezra L Wheels, driving of locomotive engines, &c 10 Miller, Ezra L Seeding, planting corn, &c 1 Miller, Francis Joseph Stop cocks 11 Miller, Henry Raising water, &c 11	Miller Ezra I			Jej
Furnaces, boiler or burner. 1 128	A		_	100
Miller, Ezra L	Miller Farn I	Funnace heiler or human	1 3 1	
Miller, Ezra L. Seeding, planting corn, &c. 1 23 Miller, Francis Joseph. Stop cocks. 11 229 Miller, Henry. Raising water, &c. 11 239	Willer From T			120
Miller, Ezra L	umer, Ezra L		١ ١	014
Miller, Francis Joseph	Willes Press I	gines, ozc	10	
Miller, Henry	Willer E-marie T	. Seeding, planting corn, &c	1 1	
Kaising water, dec	Miller, Francis Joseph	Stop cocks		
Miller, Henry 8 183	diller, rienry	. Kaising water, &c	11	

. PATENTES.	ENVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Miller, Henry—see Ronald.			
Miller, Hezekiah S	Felt making, &c	16	71 295
Miller, Jac	Boots, trees	4	104
Miller, Jac	Distilling	4	104
Miller, James	Stoves	5	136
Miller, James	Steam engine, rotary	.6	161 25 2
Miller, James M	Grinding corn with the cob, &c	13 5	128
Miller, John	Furnaces, fire-proof, &c	14	276
Miller, John, and E. M. Dorr, (assignees	Metal, forging, drawing, or forming		
of William Ryder.)	spindles, &c., in	2	51
Miller, Joseph A.—see Eastlack.	G.:: 11	10	254
Miller, Joseph	Grist mill, screw	13 1	334
Miller, Josh. R.	Thrashing machine	î	29
Miller, J	Musket, containing number of charges		336
Miller and Lawes	Hulling cotton seed	1	14
Miller, Lewis S	Wool, cleaning burn from, &c	3	95
Miller, Lyman B. and Ellery	Garments, tailors' measures	21 1	35% 34
Miller, Martin	Winnowing clover seed	10	210
Miller, Nathaniel, and Edward Bancroft.	Axles of railroad cars	iŏ	205
Miller, N. and P. W	Brick and tile	15	987
Miller, N. and P. W	Loom	• 3	79
Miller, Perry	Plough	ļ	16
Mills, Peter	Stoves, cooking	5 17	141 307
Miller, Robert	Flax and hemp, cleaning, &c	3	72
Miller, Robert	Flax and hemp machine	3	73
Miller and Rodgers	Washing machine	17	316
Miller, Rudolph	Thrashing machine	1	30
Miller, Rudolph	Corn fedder, cutting and crushing	1 15	288
Miller, Samuel H	Clay, potters', cleansing, &c Wheel hubs, bands for	10	214
Miller, Samuel R	Compass, surveying, &c	8	184
Miller, Thomas	Bed bug, destroying by steam	17	307
Miller, Thomas, jr	Paint, brown	4	113
Miller, Timothy	Plough	1	18 17
Miller, Timothy	Plough	1	iř
Miller, William	Mill stones.	13	257
Miller, William D	Beehives	1	3
Miller, William	Nails, cutting, &c	2	52
Miller, William	Candles, dipping	4	100
Miller, William H	Clasps for pantaloon straps	21 21	350 354
Miller, William R	Umbrella stand, (design)	5	147
Millis, Nicholson	Boots and shoes, &c	16	295
Mills, Clark	Bust of Hon. J. C. Calhoun, (design)		321
Mills and Fernald	Hydrostatic, &c., machine for propel'g		223
Mills, Harvey	Barrels, gun, &c	19 3	333 78
Mills and Rogers	Thrashing, &c		27
*Mills, Thomas	Stoves	5	138
Mills, Thomas	Fracture apparatus	20	349
WIND, Z.ach	Printing press	10	327
Mills, Zach	Uradle, swing	17 17	311 317
Millikin, Samuel	Roots and shoes &c	16	295
Millington, ira	Churn	1	5
Milne and Deane	Bleaching cotton	4	100
Mallo, Francis	Spark catcher	. 6	155
Mims, Marshal and Seaborn J	Plough, &c	1	19

^{*}In classification wrongly spelled "Miles."

INDEX

PATENTEES.	ENVENTIONS OR DISCOVERIES.	CLASS.	PAG
liner, Amos	Window sesh		
liner, Amos	. Window sash		1 1
liner, Amos.		15	1
liner, Amos			1
liner, Amos			1
liner, Charles	Raising ships, &c		
liner, Charles	Raising ships, &c		5
liner, Frederick	Cultivator		١.
liner, John, and Silas Merrick	- Stave machine		5
liner, Jonathan	Water wheel	11	. :
liner, Levin, and Nicholas Felss liner, Thomas—see Hicks.	Seeding, sowing cotton seed	1 1	
lingle, Philip S	Grama Tabiah anal	5	1
lini, John G.	Stoves, Lehigh coal	4	i
linor, Amos			-
linor, Amos			
inton, Sylvanus			3
linturn, Jacob	Plough, cast iron		٠
lintzer, Peter	· Harness, nets, &c	16	9
lirick, Jacob B	Mill stones, &c.	13	9
itchell, Adam.	Pleugh, bar-share	1 1	
ittcheil, Alexander	Ships' moorings, &c	7	1
itchell, Arthur.	Washing machine	17	3
atchell and Butterworth	Loom, &c.	3	- (
litchell, Enos	Churn, double-dasher	1	
litchell and Fairbanks		17	3
litchell, George P.		16	25
litchell, Harlow		14	77
litchell, James		228	35
fitchell, James K.	· Clover huller	_1 [-
litchell, John.		17	30
litchell, John R	Heat retainer, &c	5	13
litchell, Ormsby M		12	19
litchell, Robert W.	Fireplace, &c	17	31
litchell, Robert	Horse power, water or steam	13	25
litchell, Reuben	Heating buildings	5	13
litchel, Thomas	. Horse power	13	25
litchell, William.	Straw cutter	ï	9
Intchell, William.	Rrick making	15	28
Litchell, William.	Rrick making	15	98
Litchell, William.	Brick making Ac.	15	29
litchell, William B.	. Railroad, edge rail, &c	9	19
litchener, Jos		14	27
lix, Ebenezer	. Buildings, securing against fire	9	19
lix, Eli.		5	127 214
ix, Jona	- Springs, carriage	10	216
ix, Jona	Springs, carriage, main	10	211
lix, John		10	334
lix, Miles C		19	200
lix, M. P.		7	163
lix, Miles C	Horse nower	13	254
hx, Phelps	Pump, double acting culinden	11	220
itx, Thomas	Spoons casting.	2	60
lix, William	Spoons, casting	2	60
lix, William	Stoves and grates.	5	145
lixer, Nathan	Saddles trees &	16	366
lixon, Noel	. Hulling cotton seed	i l	14
EXSELL—see Camphell and Camphell		· }	
DECIL A line leave TI	I Cooking store	5	140
Tach, Abraham I	- COOKING MOAG	9	~~
fixell, Abraham T. fixwell, Abner T. fobley, Eli.	- Pumps	11	935 974

Moffist John	INVENTIONS OR DISCOVERED CLASS.	PATEM VING.
Wester wheel	Cooking stove	Mat. John
Moffit and Taintor. Moflineaux, James. Mollineaux, James. Mollineaux, James. Wegon boxes, meudle for casting. Mollineaux, James. Wind wheel. It Mollineaux, James. Wind wheel. Hulling clover seed. Monono, George. Hulling clover seed. Hulling clover seed. Monono, George. Hulling clover seed. Monono, George. Hulling clover seed. Mononomery, James. Monigomery, James. Monigomery, James. Monigomery, James. Monogomery, James. Monogomery, James. Monogomery, James. Monogomery, James. Monogomery, James. Monogomery, Richard. Horse power mill. Monigomery, Richard. Horse power. Monigomery, William. Horse power. Monigomery, William. Hemp, &c., hachling and spinning. Monigomery, William. Hemp, cc., hachling and spinning. Monogomery, William. Hemp, terring slivers, &s. Monogomery, William. Hoody and Samstel Morrill. Moody, Paul. Mood		
Mollineaux, James Wagon bexes, meadles for cassing. 10 Mollineaux, Jesse Sidential Weekel Sidential Weekel Sidential	Distilling, still for 4	forfit, John
Mollineaux, James Wagon bexes, meadles for cassing. 10 Mollineaux, Jesse Sidential Weekel Sidential Weekel Sidential	Cooking stove, self-heat retaining	loffat and Taintor
Monoleng George Hulling clover seed 1	Wegon bexes, moulds for casting 19	Lollineaux, James.
Monoleng George Hulling clover seed 1	Wind wheel	Lollineux, Jesse
Monore, Newton C	Shearing cloth	Folleneux, Jesse
Messtaudevert, James L. Gold, extracting frem ores 2 Messtgomery, James Boiler, steam, safety apparatus. 6 Montgomery, James Boiler, steam, safety apparatus. 6 Montgomery, John Berk mill 13 Montgomery, Richard Horse power 14 Montgomery, Richard Horse power 15 Montgomery, Richard Horse power 15 Montgomery, Richard Horse power 15 Montgomery, William Hemp, dc., hacking and spinning 3 Montgomery, William Hemp, terring slivers, dec 3 Montgomery, William Boote and shees, manufacturing 16 Montrop, L Tellow, rendering 16 Montrop, L Tellow, rendering 17 Moody, Montrop, L Tellow, rendering 17 Moody, Selwin, and Sanniel Morrill Bede, spring, spiral 17 Moody, Paul Bede, spring, spiral 17 Moody, Paul Spinning, speeder, deuble 3 Moody, Paul Spinning, speeder, deuble 3 Moody, Paul Spinning, speeder, deuble 3 Moody, Paul Spinning, speeder, deuble 3 Moody, Paul Spinning, otton, frame-for 3 Moody, Paul Spinning, cotton, frame-for 3 Moody, Paul Spinning, cotton, frame-for 3 Moody, Paul Spinning, roping, cotton 3 Moody, Paul S	Hulling clover seed 1	lonohon, George
Mentgomery, Adam. Cordage, rope, serving. Boiler, steam. Montgomery, Janses. Montgomery, Janses. Montgomery, Janses. Montgomery, Janses. Montgomery, Les. Montgomery, Rich., and L. W. Harris. Montgomery, Rich., and L. W. Harris. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Moody, Edwin, and Samuel Morrill. Moody and Eastmen. Moody, Edwin, and Samuel Morrill. Beds, spring, spiral. Moody, Paul. Moody, Paul. Moody, Paul. Spinning, speeder, double. Spinning, speeder, double. Spinning, speeder, double. Spinning, speeder, double. Spinning, speeder, double. Spinning, speeder, double. Spinning, speeder, double. Spinning, speeder, double. Spinning, speeder, double. Moody, Paul. Moody, Paul. Spinning, speeder, double. Spinnin		lonroe, Newton C
Montgomery, James. Montgomery, John. Montgomery, John. Montgomery, Lee. Montgomery, Richard. Montgomery, Richard. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Montgomery, William. Moody, William. Moody, William. Moody, John Land. Moody, John Land. Moody, John Land. Moody, John Land. Moody, Paul. Mood		lentaudevert, James L
Montgomery, John Montgomery, Lee		fentgomery, Adam
Montgomery, John Montgomery, Lee	Boiler, steam	lontgomery, James
Montgomery, Richard Montgomery, Richard Montgomery, Richard Montgomery, William Montgomery, Montgomery	Boiler, steam, safety apparatus.	fentgomery, James
Wontgomery, Rich, and L. W. Harris. Wontgomery, Rich, and L. W. Harris. Wontgomery, William. Wontgomery, William. Wontgomery, William. Wontrop, L. Wontrop, L. Wootrop, L. Wootrop, L. Wootrop, L. Woody, Renry. Woody, Real. Woody, Paul. Woody,		lontgomery, John
Wontgomery, Rich, and L. W. Harris. Wontgomery, Rich, and L. W. Harris. Wontgomery, William. Wontgomery, William. Wontgomery, William. Wontrop, L. Wontrop, L. Wootrop, L. Wootrop, L. Wootrop, L. Woody, Renry. Woody, Real. Woody, Paul. Woody,	Brick machine 15	Iontgomery, Lee
Montgomery, Williama Hemp, tarring eliveres, dec. 3 Montgomery, Williama Hemp, tarring eliveres, dec. 3 Montrop, L. Tallow, rendering. 4 Mooers, Henry. Henry. Wheels, car. 10 Moody, Edwin, and Samstel Morrill Saw mill, self-tending. 17 Moody, Radwin, and Samstel Morrill Saw mill, self-tending. 14 Moody, Nathan Bede, spring, spiral. 17 Moody, Paul Spring, spiral. 17 Moody, Paul Spring, spiral. 18 Moody, Paul Spring, speeder, deuble. 18 Moody, Paul Spring, speeder, deuble. 19 Moody, Paul Spring, speeder, double. 19 Moody, Paul Spring, spool, years. 19 Moody, Pau	Horse power	Iontgomery, Richard
Montgomery, William Montgomery, William Moots and shees, manufacturing Mooers, Jonathan Moody, L. Mooers, Jonathan Moody, Sakina, and Samuel Morril Moody, Paul Moody Mo	arms. Bark mill, &c 13	lontgomery, Rich, and L. W. Harris.
Wentgomery, William S. Spark catchen. 6 Wontrop, L. Tallow, rendering. 4 Wooers, Jonathan. Pleugh. 17 Woody and Eastman. 18 Woody, Edwin, and Sanned Morrill 19 Woody, Paul. 19 Woody, Paul 19 Woody, P	Hemp, &c., hackling and spinning 3	lontgomery, William
Montgomery, Williams S. Spark catchen. 6 Montrop, L. Tallow, rendering. 4 Mooers, Jonathan. 10 Moody and Eastman. 17 Moody, Edwin, and Sanneld Morrill 18 Moody, Edwin, and Sanneld Morrill 19 Moody, Nathan. 19 Moody, Paul 19 Moody,	Hemp, tarring slivers, dec	lontgomery, William
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Mocers, Henry	Spark catcher	Iontgomery, William S
Moody And Eastman. Moody and Eastman. Moody Alewin, and Samuel Morrill. Moody, Eli. Moody, Nathan. Moody, Paul. Moody, Pau	Tanow, Tondonag	
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Moody, Paul Spinning, speeder, deuble 3 Moody, Paul Spinning, speeder, deuble 3 Moody, Paul Spinning, speeder, deuble 3 Moody, Paul Winding, spool, year. 3 Moody, Paul Spinning cotten, frame for 3 Moody, Paul Spinning cotten, frame for 3 Moody, Paul Spinning cotten, frame for 3 Moody, Paul Spinning, roping, cotton 3 Moody, Paul Spinning, roping, cotton 3 Moody, Paul Spinning, roping, cotton 3 Moody, Paul Spinning, roping, cotton 3 Moody, Paul Spinning, roping, cotton 3 Moody, Paul Spinning, roping, cotton 3 Moody, R., and S. D. Dakin Dock, floating dry, meshod of werking 9 Moon, John Corn sheller 1 Moon, John Water wheel 1 Moon, John Water wheel 1 Moon, John Water wheel 1 Moor, Samuel, jr Churn 1 Moore, Albert Straw, cavening 3 Moore, Robert Buds delaying from blossonaing 1 Moore, Alexander D Grinding and pounding 1 Moore, Camm Washing machine, &c 1 Moore, Camm Grater, apple, &c 1 Moore, Camm Grater, apple, &c 1 Moore, George R G Copper, sheet, &c deuble seaming 1 Moore, George G Kim, steam 5 Moore, Henry Brandy, imitating, &c 1 Moore, Hugh Hat bodies 3	Ovens, baking, do	loody, Eli
Moody, Paul Spinning, speeder, deuble Spinning, speeder, deuble Spinning, speeder, deuble Spinning, speeder, deuble Spinning cotten, frame for Spinning cotten, frame for Spinning cotten, frame for Spinning cotten, frame for Spinning cotten, frame for Spinning cotten, frame for Spinning cotten, frame for Spinning, roping, cotton Spinning, cotton Spinning, co	Motion, alternate, &c	loody, Nathan
Moody, Paul Winding, speeder, double Winding, spool, years. Moody, Paul Spinning cotton, frame for Spinning cotton, frame for Spinning cotton, frame for Spinning cotton, frame for Spinning, roping, cotton. Moody, Paul Spinning, roping, cotton. Moody, Paul Spinning, roping, cotton. Spinning cotten, frame for . Spinning, roping, cotton. Spinning, roping, cotton. Spinning, roping, cotton. Spinning, roping, cotton. Spinning, roping, cotton. Spinning, roping, cotton. Spinning cotten, frame for . Spinning cotten, for . Spinning cotten, frame for . Spinning cotten, frame for . Spinning cotten, frame for . Spinning cotten, frame for . Spinning cotten, frame for . Spinning cotten, frame for . Spinning cotten, frame for . Spinning cotten, frame for . Spinning cotten, frame for . Spinning cotten, frame for . Spinning cotte	Spinning, speeder, double	loody, Paul
Meedy, Paul. Moedy, Paul. Spinning cotten, frame for. Spinning, roping, cotton. Spinning, roping, cotton. Spinning, roping, cotton. Spinning, roping, cotton. Spinning, roping, cotton. Spinning, roping, cotton. Spinning cotten, frame for. Spinning cotten, frame for. Spinning cotten, frame for. Spinning cotten, frame for. Spinning cotten, frame for. Spinning cotten, frame for. Spinning cotten, frame for. Spinning, roping, cotton. Spinning, roping, cotton. Spinning cotten, frame for. Spinning cotten, frame for. Spinning cotten, frame for. Spinning cotten, frame for. Spinning cotten, frame for. Spinning cotten, frame for. Spinning, roping, cotton. Spinning, roping, cotton. Spinning, roping, cotton. Spinning roping, cotton. Spinning, roping, cotton. Spinning roping, cotton. Spinni	Spmning, speeder, deuble	loody, Paul
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Meedy, Paul. Meedy, Paul. Moedy, Paul. Moedy, Paul. Moedy, Paul. Moedy, R., and S. D. Dakin Moedy, R., and S. D. Dakin Moen, John Moen, John Moen, John Moen, John Moen, John W Meen, John W Meen, John W Moer, Albert Moer, Nathaniel Moer, Nathaniel Moer, Robert Moer, Robert Moer, Alexander D Moer, Alexander D Moer, Camm Moer,	Spinning cotton, frame for.	loody, Paul
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Moedy, Paul. Meedy, R., and S. D. Dakin Meedy, R., and S. D. Dakin Moen, John Moen, John Moen, John Moen, John Moen, John W Meen, John W Meen, John W Meen, John W Meer, Albert Meer, John W Moer, Nathaniel Moore, Robert Moore, Alexander D Moore, Alexander D Moore, Camm Moore, Camm Moore, Camm Moore, Camm Moore, Camm Moore, Camm Moore, Camm Moore, George R Moore, George R Moore, George R Moore, George R Moore, George R Moore, George G Moore, Harvey* Moore, Harvey* Moore, Harvey Moore, Harvey Moore, Harvey Moore, Harvey Moore, Harvey Moore, Hugh Hat bodies Straw, cutting, &c Latelling dry, meshod of working Dock, floating dry, meshod of working Dock, floating dry, meshod of working Dock, floating dry, meshod of working Dock, floating dry, meshod of working Dock, floating dry, meshod of working Corn sheller Tan vats Churn Tan vats Churn Straw, cutting, &c Latelling dry, meshod of working Corn sheller Latelling dry, besin, de Latelling dry, besin, de Corn sheller Latelling dry, besin, de Latelling dry, besin, de Churn Latelling dry, besin, de Latelling dry, besin,	Spining, Toping, containing	
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Meore, Camm	to the state of th	
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Moore, Daniel B. Shingles, sawing. 14 Moore, George R. Copper, sheet, &c., double seaming. 28 Moore, George C. Kiln, steam	The state of the s	
Moore, George R	trivity drawing approx account to the trivity	Sonre Daniel R.
Moore, George R	10000	
Moore, George G		foore. George R.
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Moore, Henry Brandy, imitating, &c	The state of the s	
Moore, Hugh Hat bodies		
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Moore, H. D.—see Ecksteen, J.		

^{*} In classifications Henry.

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Moore, James C.	PATENTESS.	inventions or discovering.	CLASS.	PAGE
Moore, James C.	Moore Tames R	Plough	1	19
Moore, Jefferson.			. =	
Moore, John Plough 1 1 18 Moore, John Plough 1 1 18 Moore, John Cooking stove. 5 13 Moore, John Brick press, compound 15 28 Moore, Joseph H., and Benj, Woodworth Bailroads, cleaning the tracks. 9 13 Moore, S. and P. Brick press, compound 13 25 Moore, Richard Nails, cutting. 16 23 Moore, S. and P. Grist mill, sugar losf. 13 25 Moore, S. and P. Grist mill, sugar losf. 13 25 Moore, Moore, William S. Lamp, lard. 5 13 Moore, Cymus, Samuel Boots, crimping. 16 23 Moorehouse, Samuel Boots, crimping. 16 23 Moorehouse, Samuel Boots, crimping. 16 23 Morehouse, Samuel Boots, crimping. 16 23 Morehouse, Stephen P. Lamps, for lard 15 13 Morehouse, Moses Lamps, for lard	Moore Tefferson	Lathe		
Moore, John	Mane John	Planch		
Moore, John	Macro Tohn			
Moore, John			_	
Moore, Joseph H., and Benj. Woodworth Moore, Joseph H., and Benj. Woodworth Straw cutter.				
Moore, Joshua	Moore, John	Reilroade cleaning the tracks		
Moore, J. Francis.		Strong cutton		
Moore, Nathaniel L				
Moore, Richard				
Moore, Samuel				
Moore, S. and P. Grist mill, sugar loaf. 13 13 13 13 13 13 13 1				
Moore, Thomas				
Moore, William S. Calvanic rings. 25 348	Moore Thomas			
Moorehead, David C. Galvanic rings. 20 Moorehouse, Samuel. Boots, crimping. 16 Moreau, Gabriel H. Booler, steam, or generating apparatus? 7 Moreau, Gabriel H. Propelling steamboats and other boats? 7 Moorehead and Howells Apples, grinding, &c. 13 Moorewood, Edmund P. John and copper, coating with tin and other metals. 21 Morey, Samuel. Steam, shooting with tin and other metals. 21 Morey, Samuel. Steam, shooting with tin and other metals. 21 Morey, Samuel. Steam, shooting with tin and other metals. 21 Morey, Samuel. Steam, shooting with tin and other metals. 21 Morey, Samuel. Steam, shooting with tin and other metals. 21 Morey, Samuel. Steam, applying to water. 6 Morey, Samuel. Steam, applying to water. 6 Morey, Samuel. Steam, applying to water. 6 Morey, Samuel. Boilers, steam engine. 6 Morey, Samuel. Boilers, steam engine. 6 Morey, Samuel. Burners, water. 1	Moore William S			
Boots, crimping				= .:
Morehouse, Stephen P				
Moreau, Gabriel H. Boiler, steam, or generating apparatus Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats and other boats Fropelling steamboats Fropel				
Moreau Gabriel H Propelling steamboats and other boats 7 Moorehead and Howell* Behives 13 Behives 14 Behiv				
Moorehouse, Moses.				
Morehouse, Moses. Apples, grinding, &c. 13 249 Moorewood, Edmund P fron and copper, coating with tin and other metals. 2 47 Morey, Cyrus, and David Hummer Tailors' measures. 21 354 Morey, Samuel. Steam, shooting with. 6 163 Morey, Samuel. Steam, shooting with. 6 155 Morey, Samuel. Steam, applying to water. 6 156 Morey, Samuel. Steam, applying to water. 6 156 Morey, Samuel. Stoves, leading flame by, &c. 5 145 Morey, Samuel. Boilers, steam engine. 6 152 Morey, Samuel. Boilers, steam, triple pipe. 6 153 Morey, Samuel. Boilers, steam, triple pipe. 6 153 Morey, Samuel. Burners, water 11 223 Morey, Samuel. Raising water 11 223 Morey, Samuel. Seam engine. 6 154 Morey, Samuel. Seam engine. 6 156 Morey, Samuel.				
Morey			- =	249
Morey, Cyrus, and David Hummer. Tailors' measures. 32 354				
Morey, Cyrus, and David Hummer	12001cwood, 12amana I		9	47
Morey, Samuel. Air, rarified and unrarified, obtaining power by	Morey Curve and David Hummer	Tailore' messures		
Dower by. 11 218		Air, rarified and unrarified obtaining	~~	•••
Morey, Samuel. Steam, shooting with. 6 163 Morey, Samuel. Steam, applying to water. 6 155 Morey, Samuel. Steam, applying to water. 6 156 Morey, Samuel. Steam, shooting with. 19 337 Morey, Samuel. Stoves, leading flame by, &c. 5 145 Morey, Samuel. Boilers, steam engine. 6 153 Morey, Samuel. Boilers, steam, triple pipe. 6 153 Morey, Samuel. Gas engines, &c. 6 154 Morey, Samuel. Burners, water. 5 124 Morey, Samuel. Raising water. 11 228 Morey, Samuel. Spit, turner. 5 135 Morey, Samuel. Steam engine. 6 156 Morey, Samuel. Steam engine. 6 156 Morey, Samuel. Lamps, &c. 5 134 Morey, Samuel. Lamps, &c. 5 137 Morey, Samuel. Water wheel, and applying water to. 11 233 <td>morey, Samuelli,</td> <td></td> <td>11</td> <td>219</td>	morey, Samuelli,		11	219
Morey, Samuel. Steam, applying to water 6 155	Morey Semuel			
Morey, Samuel				722
Morey, Samuel. Steam, applying to water 6 156			_ 1	
Morey, Samuel. Steam, shooting with. 19 337				===
Morey				
Morey				
Morey, Samuel. Boilers, steam, triple pipe. 6 153 Morey, Samuel. Gas engines, &c. 6 154 Morey, Samuel. Burners, water. 5 194 Morey, Samuel. Raising water. 11 228 Morey, Samuel. Spit, turner. 5 135 Morey, Samuel. Steam engine. 6 156 Morey, Samuel. Lamps, &c. 5 134 Morey, Samuel. Water wheel, and applying water to. 11 232 Morey, Samuel. Water wheel, &c. 11 233 Morey, Samuel. Water wheel, and applying water to. 11 232 Morey, Samuel. Water wheel, and applying water to. 11 233 Morey, Samuel. Water wheel, and applying water to. 11 232 Morey, Samuel. Water wheel, and applying water to. 11 232 Morey, Samuel. Drilling inc. 4 101 Morey, Samuel. Drilling inc. 4 101 Morey, Samuel. Drilling inc.			_ 1	
Morey Samuel Gas engines &				
Morey, Samuel. Burners, water 5 124 Morey, Samuel. Raising water 11 228 Morey, Samuel. Spit, turner 5 135 Morey, Samuel. Spit, turner 5 135 Morey, Samuel. Steam engine 6 156 Morey, Samuel. Fireplace, &c. 5 137 Morey, Samuel. Water wheel, and applying water to 11 233 Morey, Samuel. Water wheel, &c. 11 233 Morey, Samuel. Water wheel, &c. 11 233 Morey, Samuel. Water wheel, and applying water to 11 233 Morey, Samuel. Candlewick, &c. 4 101 Morey, Willard. Candlewick, &c. 4 101 Morfal, John. Evaporating boiler 4 106 Morfal, John. Drilling machines 2 42 Morgan, Amos Drilling iron, &c., machine for 2 42 Morgan, Charles Preserving timber 4 11			= 1	154
Morey, Samuel. Raising water. 11 228 Morey, Samuel. Samuel. 5 135 Morey, Samuel. Spit, turner. 5 135 Morey, Samuel. Lamps, &c. 5 134 Morey, Samuel. Fireplace, &c. 5 134 Morey, Samuel. Water wheel, and applying water to. 11 233 Morey, Samuel. Water wheel, and applying water to. 11 235 Morey, Samuel. Water wheel, &c. 11 235 Morey, Gard, Samuel. Seam engine. 11 106			5	194
Morey, Samuel. Engine, water. 11 222 Morey, Samuel. Spit, turner. 5 135 Morey, Samuel. Lamps, &c. 5 134 Morey, Samuel. Lamps, &c. 5 137 Morey, Samuel. Water wheel, and applying water to. 11 232 Morey, Samuel. Water wheel, &c. 11 235 Morey, Samuel. Water wheel, and applying water to. 11 235 Morey, Samuel. Water wheel, &c. 11 235 Morey, Samuel. Water wheel, and applying water to. 11 235 Morey, Samuel. Water wheel, and applying water to. 11 235 Morey, Samuel. Water wheel, and applying water to. 11 235 Morey, Samuel. Candlewick, &c. 4 101 Morey, Samuel. Candlewick, &c. 4 101 Morgan, Jahn. Drilling machines. 2 42 Morgan, Amos. Drilling machines. 2 42 Morgan, Charles Drilling machines.			11	226
Morey, Samuel. Spit, turner. 5 135 Morey, Samuel. Steam engine. 5 134 Morey, Samuel. Lamps, &c. 5 134 Morey, Samuel. Fireplace, &c. 5 137 Morey, Samuel. Water wheel, and applying water to. 11 232 Morey, Samuel. Water wheel, &c. 11 235 Morey, Willard. Candlewick, &c. 4 101 Morfit, John. Evaporating boiler. 4 106 Morford, John. Evaporating boiler. 4 106 Morgan, Amos. Drilling machines. 2 43 Morgan, Charles Drilling iron, &c., machine for. 2 43 Morgan, Charles Preserving timber. 4 114 Morgan, Frederick Varnish, applying to whip staffs 18 330 Morgan, James. Loom, warping. 3 83 Morgan, John. Spinning machine. 3 91 Morgan, John. Boots, cutting cassock 16 293			11	223
Morey, Samuel			5	135
Morey, Samuel. Lamps, &c. 5 134 Morey, Samuel. Fireplace, &c. 5 137 Morey, Samuel. Water wheel, and applying water to. 11 233 Morey, Samuel. Water wheel, &c. 11 235 Morey, Gamel. Water wheel, &c. 11 235 Steam engine. 6 156 106 Candlewick, &c. 4 108 108 Morgan, Amos Plough 1 17 Morgan, Amos Drilling machines 2 42 Morgan, Charles Preserving timber 4 114 Morgan, Frederick Varnish,			6	156
Morey, Samuel. Fireplace, &c. 5 127 Morey, Samuel. Water wheel, and applying water to. 11 232 Morey, Samuel. Water wheel, and applying water to. 11 235 Morey, S., R. Graves, and G. Richards. Steam engine. 6 156 Morey, Willard. Candlewick, &c. 4 101 Morford, John. Evaporating boiler. 4 108 Morgan, Amos. Drilling machines. 2 42 Morgan, Charles. Drilling iron, &c., machine for. 2 42 Morgan, Elisha. Saw mills. 14 11 Morgan, Frederick. Varnish, applying to whip staffs. 18 339 Morgan, James. Loom, warping. 3 83 Morgan, John. Spinning machine. 3 91 Morgan, John. Boots, cutting cassock. 16 293 Morgan, John T. Boots, cutting cassock. 16 293 Morgan, John T. Raising vessels out of water. 7 176 Morgan, Jonathan			5	134
Morey, Samuel			5	127
Morey, Sanuel. Water wheel, &c. 11 235 Morey, S., R. Graves, and G. Richards Steam engine. 6 156 Morey, Willard. Candlewick, &c. 4 101 Morfit, John. Evaporating boiler. 4 108 Morord, John. Plough. 1 17 Morgan, Amos. Drilling machines. 2 42 Morgan, Amos. Drilling iron, &c., machine for. 2 42 Morgan, Charles Preserving timber. 4 114 Morgan, Elisha. Saw mills. 14 274 Morgan, Frederick. Varnish, applying to whip staffs. 18 329 Morgan, James. Loom, warping. 2 40 Morgan, John. Spinning machine. 3 33 Morgan, John. Boots, cutting cassock. 16 293 Morgan, John T. Boots, cutting cassock. 16 293 Morgan, Jonathan Glue, manufacturing. 4 106 Saw, circular, &c. 14 273			11	232
Morey, S., R. Graves, and G. Richards Steam engine. 6 156 Morey, Willard. Candlewick, &c. 4 101 Morfort, John. Evaporating boiler. 4 106 Morgan, Amos. Plough. 1 17 Morgan, Amos. Drilling machines. 2 42 Morgan, Charles Drilling iron, &c., machine for. 2 43 Morgan, Elisha. Saw mills. 14 274 Morgan, Frederick. Varnish, applying to whip staffs 18 339 Morgan, Griffith Bolts, copper, uniting. 2 46 Morgan, Janes. Loom, warping. 3 83 Morgan, John. Spinning machine. 3 91 Morgan, John. Spinning machine. 3 91 Morgan, John T. Boots, cutting cassock. 16 293 Morgan, John T. Raising vessels out of water. 7 176 Morgan, Jonathan Glue, manufacturing. 4 108 Saw, circular, &c. 14 973			11	235
Morey, Willard Candlewick, &c. 4 101 Morfat, John Evaporating boiler 4 108 Morgan, James Plough 1 17 Morgan, Amos Drilling machines 2 42 Morgan, Charles Drilling iron, &c., machine for 2 42 Morgan, Charles Preserving timber 4 114 Morgan, Elisha Saw mills 14 274 Morgan, Frederick Varnish, applying to whip staffs 18 339 Morgan, Griffith Bolts, copper, uniting 2 40 Morgan, Janes Loom, warping 3 83 Morgan, John Spinning machine 3 91 Morgan, John Spinning machine 3 91 Morgan, John Boots, cutting cassock 16 293 Morgan, John T Raising vessels out of water 7 176 Morgan, Jonathan Glue, manufacturing 4 108 Saw, circular, &c 14 973	Morey, S., R. Graves, and G. Richards.		6	156
Morfit, John Evaporating boiler 4 108 Morford, John Plough 1 17 Morgan, Amos Drilling machines 2 43 Morgan, Charles Drilling iron, &c., machine for 2 42 Morgan, Elisha Preserving timber 4 114 Morgan, Frederick Varnish, applying to whip staffs 18 339 Morgan, Griffith Bolts, copper, uniting 2 49 Morgan, James Loom, warping 3 83 Morgan, John Spinning machine 3 91 Morgan, John Boots, cutting cassock 16 293 Morgan, John T Raising vessels out of water 7 176 Morgan, Jonathan Glue, manufacturing 4 106 Saw, circular, &c 14 273	Morey, Willard		4	101
Morford, John Plough 1 17 Morgan, Amos Drilling machines 2 42 Morgan, Amos Drilling iron, &c., machine for 2 42 Morgan, Charles Preserving timber 4 114 Morgan, Elisha Saw mills 14 274 Morgan, Griffith Varnish, applying to whip staffs 18 339 Morgan, James Loom, warping 2 46 Morgan, John Winnowing grain. &c 1 34 Morgan, John Spinning machine 3 91 Morgan, John Boots, cutting cassock 16 293 Morgan, John T Raising vessels out of water 7 176 Morgan, Jonathan Glue, manufacturing 4 108 Morgan, Jonathan Saw, circular, &c 14 973	Morfit, John		4	108
Morgan, Amos Drilling machines 2 42 Morgan, Amos Drilling iron, &c., machine for 2 42 Morgan, Charles Preserving timber 4 114 Morgan, Elisha Saw mills 14 274 Morgan, Griffith Saw mills 18 329 Morgan, James Bolts, copper, uniting 2 46 Morgan, James Winnowing grain 3 83 Morgan, John Winnowing grain 4 34 Spinning machine 3 91 Morgan, John Boots, cutting cassock 16 293 Morgan, John T Boots, cutting cassock 16 293 Morgan, John T Raising vessels out of water 7 176 Morgan, Jonathan Glue, manufacturing 4 108 Morgan, Jonathan Saw, circular, &c 14 273	Morford, John	Plough	1	17
Morgan, Charles Preserving timber. 4 114 Morgan, Elisha Saw mills. 14 274 Morgan, Frederick. Varnish, applying to whip staffs 18 339 Morgan, Griffith Loom, unting. 2 46 Morgan, James. Loom, warping. 3 83 Morgan, John. Spinning machine. 3 91 Morgan, John. Boots, cutting cassock. 16 293 Morgan, John T. Raising vessels out of water. 7 176 Morgan, Jonathan Glue, manufacturing. 4 108 Morgan, Jonathan. Saw, circular, &c. 14 273	Morgan, Amos	Drilling machines		43
Morgan, Elisha. Saw mills. 14 274 Morgan, Frederick. Varnish, applying to whip staffs. 18 329 Morgan, Griffith. Bolts, copper, uniting. 2 46 Morgan, James. Loom, warping. 3 83 Morgan, John. Winnowing grain. &c. 1 34 Spinning machine. 3 91 Morgan, John. Boots, cutting cassock. 16 293 Morgan, John T. Boots, cutting cassock. 1 16 Morgan, John T. Raising vessels out of water. 7 176 Morgan, Jonathan Glue, manufacturing. 4 108 Morgan, Jonathan Saw, circular, &c. 14 973		Drilling iron, &c., machine for		42
Morgan, Frederick. Varnish, applying to whip staffs. 18 Morgan, Griffith. Bolts, copper, unting. 2 Morgan, James. Loom, warping. 3 Morgan, Joel. Winnowing grain. &c. 1 Morgan, John. Spinning machine. 3 Morgan, J., and J. B. Harris. Boots, cutting cassock. 16 Morgan, John T. Raising vessels out of water. 7 Morgan, Jonathan Glue, manufacturing. 4 Morgan, Jonathan. Saw, circular, &c. 14	Morgan, Charles	Preserving timber	- 1	114
Morgan, Griffith Bolts, copper, uniting 2 46 Morgan, James Loom, warping 3 83 Morgan, Joel Unnowing grain. &c 1 34 Morgan, John Spinning machine 3 91 Morgan, John Boots, cutting cassock 16 293 Morgan, John T Raising vessels out of water 7 176 Morgan, Jonathan Glue, manufacturing 4 108 Morgan, Jonathan Saw, circular, &c 14 973	Morgan, Elisha	Saw mills	1	
Morgan, Griffith Bolts, copper, uniting 2 46 Morgan, James Loom, warping 3 83 Morgan, Joel Unnowing grain. &c 1 34 Morgan, John Spinning machine 3 91 Morgan, John Boots, cutting cassock 16 293 Morgan, John T Raising vessels out of water 7 176 Morgan, Jonathan Glue, manufacturing 4 108 Morgan, Jonathan Saw, circular, &c 14 973	Morgan, Frederick	Varnish, applying to whip staffs		
Morgan, James. Loom, warping. 3 83 Morgan, Joel. Winnowing grain. &c. 1 34 Morgan, John. Spinning machine. 3 91 Morgan, John. Boots, cutting cassock. 16 293 Morgan, John T. Plough 1 16 Morgan, Jonathan Glue, manufacturing. 4 106 Morgan, Jonathan Saw, circular, &c. 14 273	Morgan, Griffith	Bolts, copper, uniting		
Morgan, John Spinning machine 3 91 Morgan, John Boots, cutting cassock 16 293 Morgan, J., and J. B. Harris Plough 1 16 Morgan, John T Raising vessels out of water 7 176 Morgan, Jonathan Glue, manufacturing 4 108 Morgan, Jonathan Saw, circular, &c 14 973		Loom, warping		
Morgan, John. Boots, cutting cassock. 16 293 Morgan, J., and J. B. Harris. Plough 1 16 Morgan, John T. 7 176 176 Morgan, Jonathan Glue, manufacturing 4 108 Morgan, Jonathan Saw, circular, &c. 14 273				
Morgan, J., and J. B. Harris Plough 1 16 Morgan, John T. Raising vessels out of water 7 176 Morgan, Jonathan Glue, manufacturing 4 106 Morgan, Jonathan Saw, circular, &c. 14 273				
Morgan, John T	Morgan, John.	Boots, cutting cassock		
Morgan, Jonathan Glue, manufacturing 4 108 Morgan, Jonathan Saw, circular, &c 14 273	Morgan, J., and J. B. Harris	Plough		
Morgan, Jonathan	Morgan, John T	Kaising vessels out of water		
, , , , , , , , , , , , , , , , , , , ,	Morgan, Jonathan	Glue, manufacturing		
			14 [3 /3

^{*}In classification Moreland.

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Morgan, Morgan, jr Fir	e fenders	5	120
	, railroad.	10	200
	ils, manufacturing	2	- 43
	ils, self-feeding, wrought	2	5
	rashing, &c	1	2
Morineau, Philip A Fir	e arms, loading, &c	19	334
Morrison, Benjamin Bal	ance, platform	12	239
	ance, platform	12	239
	ance	12	239
	ster, adhesive, spreading	4	114
Morley, John Mil	l stones	13	250
	nent, &c	4	101
Morrall, Abel Ne	dles, manufacture of	2	54
	ances	12	239
Morrill, Henry	am engine, valves for raising the	_	
	otion of	6	-16
	hive	1	3
	hive	1	
	p hammer	2	6:
	ese, curd cutter	1	24
	ss, lever	12	303
Morris, Benjamin Tru	inks, &c	16	329
	ting press, for paper	18	8
	worms, apparatus for feeding	3 2	5.
	tes, door and signs of separate types	3	8
	er, sand, grass, or emery	9	19
	ined planes, &c	10	200
	aks for cars	14	26
	e woods, cutting	12	245
	sing and lowering weights	4	114
	serving plantsshes for blending colors, &c	18	32
	neels, carriage, immersing, &c	10	213
	ck, stop	ii	22
	k, stop	ii	220
	k, stop	ii	220
	ting meat	17	31
	ting meat	17	31
	ler, box	5	123
Morris, JohnCut	ting meat, &c	17	31:
	king apparatus	5	125
Morris, John	king, steam vessel for	5	126
	king stove, &c	5	144
	88	20	34-
	steads	17	30
	tilling, &c	4	10
Morris, John D.—see Harley, B. F.			
Morris, John D	tings, mould for	2	4
Morris, John J Sad	dles	16	299
	nace, hot air, for heating buildings		12
	ing for water	9	19:
Morris & Spinkst Bor	ing for water		-00
Morris, William We	ells, Artesian, boring	9	20
Morrison, AbrahamBoo	its, canal, &c	7	160
Morrison, Enoch RShi	ngles, sawing	14	279
Morrison, JohnSto	Ves	5	130
Morrison, John Pre	ssing hay, &c., screw for	12	24
Morrison, JohnSto	ves, design	5	13
	ving machine	14	27
Morrison, John H Sav			
Morrison, John H Sav Morrison, John H Ca		,,	004
Morrison, John H	villa	10	209
Morrison, John H Sav Morrison, John H Ca	nills neels, hubs, boring, &c	10 10	209 21 21

^{*} In classification supposed to refer to Js. Dickinson. † Not found in classification. Same date as the preceding.

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PATENTERS.	inventions or discoveries.	CLASS.	PAGE.
Morrison & Lewis	Washing machine, &c	17	31
Morrison, Michael		3	8
Morrison, Michael	Picker, wool	3	8
Morrison, Michael		7	177
Morrison, Michael		1	91
Morrison, Russell S., and B. B. Cushing.		14	274
Morrison, Samuel		19	396
Morrison, Stephen R	Saw mill, propelling	14	27
Morrison, T. and L	Churn, box	1 1	,
Morrison & Tomb	Excavator, floating	9	196
Morse, Andrew	Steering wheel	7	178
Morse, Andrew	Capstan	7	î
Morse, Andrew, jr	Clocks, &c., propelling	8	184
Morse, David	Hinges	2	45
Morse, Elijah	Corn sheller	1	9
Morse, Joel R	Shell, or horn cutting	21	353
Morse, John	Spinning fliers	3	90
Morse, John G	Grist mill, &c	13	254
Morse, Laban, and W. T. Lewis	Stoves, improvement in	5	145
Morse, L.—see Stevens.	1		
Morse, Leonard, ass'ee of Harvey Pettee		2	60
Morse, Moses L	Pendulum, scale	8	186
Morse, Moses L	Pins, making	2	55 050
Morse and Putnam	Coffee mill, &c	13 8	258 194
Morse, Samuel F. B Morse, Samuel F. B	Electro-magnetic telegraph	8	186
Morse, Samuel F. B	Pipes, metallic, introducing wire into.	9	197
Morse, Solomon	Saw sharpener	2	57
Morse, William	Granite, hammering, &c	15	289
Morton, David A	Springs, carriage, &c	10	211
Morton, John	Button, wooden moulds	21	349
Morton, John A	Horse wheel	13	257
Morton, John A	Wind wheel	11	235
Morton, J. H., T. Booly, and R. Hutson	Distilling, &c	4	105
Morton, J. H., T. Booly, and R. Hutson	Distilling, &c	4	105
Morton, W. T., assignee of C. T. Jackson		.4	118
Mosby, L. H	Raising water, &c	11	228 8
Moseley, Peter	Corn rows, &c., laying off	11	226
Moseley, David C	Pump, force, for wells, &c	16	299
Moseley, Lucilius H	Dye woods, cutting	14	267
Moseley, Lucilius H	Gin, cotton	3	75
doseley, Lucilius H	Silk, throwing or twisting	3	88
Moseley, Lucilius H	Spinning, roping, cotton	3	91
Moses, Horatio	Cans, cotton	3	67
doses, Owen	Lock, percussion	19	335
Ioses, Owen	Grist mill	13	253
losher, Joseph	Syphilis, cure of	4	118
dosher, Pinkham	Washing machine	17	315
dosher, Reuben	Washing machine	17	315
fosher, R. and A		17	311 336
fosher & White		19	112
floss, Ephraim C	Oil, sperm, &c., clarifying	18	323
loss, Isaac W., assignee of John Fancy loss, Moses	Combs, manufacturing, hair	21	350
dott, Edward	Friction, preventing.	13	251
Iott & Holmes	Grates, &c., for, &c	5	129
Iotta Jordan L	Bars for grates, &c.	2	40
Iott, Jordon L	Cooking stove	5	140
Mott, Jordon L	Cooking stove	5	140
Aott, Jordan L	Columns, cast iron	2	41
Aott, Jordan L	Tub, bathing, design	5	147
	Furnaces, portable	5	129

PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.
Mott, Jordon L	Bathing tub, design	14
Mott, Jordon L	Catches, oblique, &c	2
Mott, Jordon L	Caldron, and furnace combined	5
Mott, Jordon L		5
Mott, Jordon L	adhesion, &c	6
Mott, Jordan L		5
Mott, Jordan L		5
Mott, Jordan L	Chairs, eccentric and pivot	17
Mott, Jordan L		5
Mott, Jordan L	1 ~	5 5
Mott, Jordon L		5
Mott, Jordon L., ass'ee of Thos. Ewbar		5
Mott, Jordon L		5
Mott, Jordon L	Stoves	5
Mott, Jordon L		5
Mott, Jordon L		· 5
Mott, Jordon L	Stoves, &co	5
Mott, Jordon L		5
Mott, Joseph S		14
Mott, Richard D		19
Mottmiller, Gottlieb	Seed planters	1
Moulton, Peter		3
Mount, Joseph		6
Mount, Robert and John		5 1
Moyer, Daniel		i
Mudge, Elisha		14
Mudge & Hatch		3
Mudge, RV		17
Mudge & Tenny	Shovel, scoop	.2
Muir, John		14
Mulford, John H	Bending masts, &c	8
Mulford, Jonathan		6
Mulford, M. D		17
Mullier, Daniel		13
Mulliken, Samuel		3
Mulliken, Samuel		3
Mulliken, Samuel	Hulling rice, &c	3
Mulliken, Samuel		15
Mulliken, Samuel	Thrashing machine	ī
Mumford, Harry		1
Mumford, Silas G		3
Mumma, John		11
Munch, Philip		1
Munger, Asahel		8
Munger, George		Ă
Mungar, Hiram	Water wheels	11
Munger, Stiles	Water wheels	11
Munroe, Joseph		3
Munsell, James		14
Munson, Job L		11
Munson, Reuben		21 14
Munson, Sylvester		3
Murdock, Richard		
Murdock, Zina K		
	Straw cutter	
	Straw cutter	1

^{*} Patented 29d August, 1846—wrong date in classification.

		7	
Patenters.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Murphy, Bird	Seeding, corn planter	1	31
Murphy, John	Steam engine	6	157
Murray, Abner	Wind wheel	11	995
Murray, Abner	Wind wheel, &c	11 12	236
Murray, Alexander J	Corn shelling and cleaning	1	20
Murray, James	Corn and corn cobs, breaking and		10
	grinding	13	951
Murray, John	Gin, cotton	3	75
Murray, Mathew	Plough	1	16
Murry, Abner	Churn	1	5
Murry, George	Counterfeit, mode to prevent	18	393
Murry, George	Bank notes.	18	351
Murry, James	Saw mill, endless side-chain, &c	14	275
Mussleman, Michael	Steam, applying	6	155
Musser & Gitchel	Gate, purchase, labor-saving, &c	9	196
Mussey, Thomas	Street sweeping	3	200
Mussey, Thomas	Loom, water	3	83 83
Mussey, Thomas	Cart bodies, mode of operating	16	209
Museey, Thomas	Wheels, boxes, self-fastening	iŏ	212
Mussey, Thomas	Gridirons, &c	5	130
Musten, Joseph	Horse power	13	955
Mustin, Eb	Combs, ornamenting	21	351
Myerle, David	Cordage, rope, laying	3	79
Myers, Abraham	Stock, gun, sawing	19	237
Myers, Benjamin	Mill stones	13	257
Myers, Davidson	Water wheel, &c	11	232
Myers, D. L. and S	Raising water	10	298
Myers, Gideon	Composition for aqueduct pipes	4	103
Myers, Jeremiah	Railroad, turnabout for	9	199
Myers, John D	Ink, writing	4	109
Myera, Lawrenco	Statues, casting, method of	18	338
Myers, Samuel	Stoves, cooking	5	143
Myers, Samuel	Plough	1	18 3
Myers, Samuel C	Aerostats, or balloon, &c	11	219
McAll, William	Corn sheller	i l	413
McAll, William, H. H. Higgins, and R.	Com ancact	- 1	•
G. Rogers	Washing machine	17	316
McAllister, Arch	Marble, cutting, &c	15	289
McAllister, David	Heating liquids in wood cistern	5	130
McAllister & Iggett	Warming rooms	5	147
McArthur & McKibbin	Shingles, sawing	14	278
McBride, Andrew R	Saddles, trees	16	300
McBride, John	Mortising machine	14	270
McBride, John	Gin, cotton	3	75
McBurth, A. assignor to H. R. Hibbard		14	282
McCaine, A. M	Railroad, plates, jointing	9	198
McCall, William R	Spinning wool, &c	.3	94
McCammon, William	Brakes for car wheels	10 8	205 183
McCarthy, Fones		i	10
AcCarthy, Fones	Grist mill, percussion	13	254
McCarthy, Fones	Gin. cotton.	3	75
AcCarty, Henry	Excavator, deepening rivers, &c	9	195
AcCarty, Henry	Canals, lock gates, suspending, &c	9	193
AcCarty, Robert	Wheel hubs, boring, &c	10	214
AcCarty, Robert	Throwing bails, shot, &c	19	337
IcCarty, Thomas	Saw mills, self-setting	14	276
IcCarty, Thomas	Fire arms, loading, &c	19	334
Carty, Thomas	Cooking stove, &c	5	143
cCauley, William L	Boots, cork sole	16	293

PATRICUME.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
McCausland, A., jr	Valve, slide	6	16
McCausland, A., jr	Valve, slide	6	16
McCausland, John	Boats, canal	7	16
McCawley, Samuel	Spinning reel	3	9
McCay, McKenzie, and Woodhull	Stone, artificial	4	11
McCay, William	Alcohol used in stiffening hats, &c	4	9
McClelland James	Truss	20	34
McClelland, James H	Packing cotton	12	24
AcClintic, John	Paper cutting machine	3 14	27
deClintic, John.	Paper trimming machine	3	76
AcClintic, John	Bedstead, draw-key	17	30
AcClintic, John	Veneers, &c., slitting	14	26
McClory, James	Lock, door	2	-
AcClory, James	Lock, door	2	4
AcClory, James	Lock, door	2	4
McClory, James	Lock, door, &c	2	4
McCluer, Heman	Sun dials	8	18
AcCluer, Heman	Nails, manufacturing	2	5
McClung, Archibald	Brick press	15	28
McClure, Orren	Saddles	16	29
McColler, David	Wind wheel	11	23
McCollum, Elbridge	Stove, cooking	5	14
McCollum, James	Wheels, carriage, wrought iron	10	21
McCombar I I	Balance, platform	12	23
McComber, L. L	Hats, planking	3 11	2
AcCombs, S., J. Smith, and B. Galtin McConaughey, William	Filtering water, &c	i]
deConaughey, William	Harrow teeth	i	i
deConnel, James	Water wheel	ıî	23
AcConnell, John	Teeth, key for extracting	20	34
McConnell, William P	Boilers, steam, safety valves of	6	15
AcConnell, William P	Propelling canal boats and other vessels	7	17
McConnell, William P	Spark arresters	6	15
AcCord, Enoch D	Vice, stock and hand	2	•
AcCord, Isaac	Wire rope, round flexible	2	(
dcCord, Isaac	Propelling paddles	7	17
AcCord, John	Churn	.1	0
AcCord, John B	Water wheel	11	25
McCormick, Cyrus H	Plough, hill side	1	× 54
McCormick, Cyrus H	Plough, self-sharpening, &c	1	î
McCormick, Cyrus H	Cutting grain, &c Mowing, reaping machine	î	;
AcCormick, Robert	Hydraulic machinery	ıî	2
dcCormick, Robert	Flax and hemp machine	3	7
McCormick, Robert, jr	Violin, teaching, &c	18	3
McCormick, Robert, jr	Grist mill, self-stopper	13	2
McCormick, Stephen	Plough]	
McCormick, Stephen	Plough	1	
AcCormick, Stephen	Plough	1	
McCormick, William	Saddles, elastic	16	2
McCoy, David G	Thrashing machine	1	1
McCoy, W., assignee of Joseph Harris	Beehives	1	
AcCræ, Gavin	Loom, weavers, for working, &c	3	1
dcCrea, Thomas	Smut machine, for cleaning grain	,1	6
AcCreery, James	Hydraulic elevator	11	2
McCreight, James	Gin, cottonGrist mill.	3	٤
McCreight, W. and J	Gin, cotton	13 3	2
McCrone, John	Nails and spikes, forming	2	١.
McCrone, John—see Ellicott, A.	Trans and shuce, inimig	~	'
McCubben, Hugh	Twine and small cord, &c	3	
McCulloch, R. and T	Water wheel, and applying water to.	11	2
	I to make a manage of the land and the land of the lan		2

PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
McCully, Francis, jr	Spinning bobbins, method, &c	3	8
McCully, John	Hemp, spinning	3	7:
McCurdy, James	Propelling steamboats, &c	6	175 157
McCurdy, John	Steam engine	"	10.
Hunt	Springs for belts, &c	21	353
McDuffee, James	Mill stones, hanging, &c	13	258
McDonald, James	Flax and hemp machine	3	73
McDonald, James	Flax and hemp machine	3	73
McDonald, James	Brick machine	15	285 286
McDonald, James	Brick, moulding, &c	15 3	76
McDonald, John	Hair, separating from fur Straw cutting machine	il	26
McDonald, Major	Thrashing machine	i	29
McDonald, Malcolm	Distilling	4	104
McDonald & McQueen	Brick machine	15	285
McDonald, Richard	Steamboats, constructing	7	177
McDonough, A	Spark catcher	6	155
McDonough, Thomas	Steam engine, conical balance valve	14	158- 277
McDowe'l, John P. McEwen, William.	Sawing and splitting timber Forges, &c., water backs for	2	43
McFarland, Corey	Palm leaf, splitting	22	358
McFarland, Moses	Balloon	4	99
McGeorge, Stephen A	Washing machine	17	316
McGhee, W.J	Saw mills	14	274
McGraw, Nicholas	Bedstead, sofa	17	309
McGregor, James	Hulling machines	,1	14
McGregor, James, jr	Planing and joining, &c	14	27 2 106
McGregor, Malcolm	Distilling, still for	14	281
McGregory, Cyrus	Staves, sawing, &c	Î4	201
McGrew, Alexander	Railroad and safety car	9	198
McGrew, Alexander	Mud mill	11	235
McGrew, Alexander	Air, condensed, for propelling, &c	111	219
McGuier & Dewey	Water wheel	11	230
McIlroy, William, jr., Barley and Wil-	Corn sheller	1	9
McIlvain, Jer	Shingles and staves, dressing	14	279
McIlwhan, Thomas	Nails, sheathing, &c	2.	53
McIntire, J see Walker, Richard.	, g ,		
McIntosh & Barnheart	Pendulum, power	13	259
McIntosh, William J	Cane juice, clarifying	.4	101
McKainy, Alexander	Water wheel, screw, spiral	11 2	234
McKay, Melvin	Window shutters and blind fasteners	2	63 63
McKean, Robert	Saw mills, steam	14	276
McKechnie, Luden	Spine, stays for	20	343
McKeever, Matthew	Thrashing machine, &c	1	32
McKinney, John	Cradle, swing	17	311
McKinnon, Angus	Locks and keys	2	50·
McKinzie, Alexander D	Printing in colors	18	396 10
McLain—see Fulk.	Crushers, corn and cob	1 1	10
McLane, Charles	Worms, specific for	4	119
McLaughlin & Hill	Planing machine	14	272
McLaughlin, Ira	Mortising, timber	14	271
McLaughlin, Ira			306
McLaughlin, Ira, and H. Hill	Rolling leather		29 9
McLean, A. M	Press, tobacco	12	244 325
McLean & Loomis.	Water wheel, tub.		235
McLean, William S	Spring bearer, for window sash		60.
McMahon, William—see Perkins.			
McManaway, John C	Furnace, refining iron	2 !	#

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGI
McMath, James	Straw cutter, &c	-	8
McMillen, Abner	Dye woods, cutting, &c	14	26
A 3671 D. 1.1.0	ber, &c	14	27
McMillen, Daniel C	Twyere, &c	2	6
McMillen, Reuben	Steam, generating, cooking oven and		
A. M. Cillian - Th. Cillians	boiler combined	6	16
AcMillen, William	Flax and hemp, breaking and cleaning Hides, softening, &c	2 16	29
IcMinn, Robert	Stoves, Lehigh coal	5	14
SeMullen & Hollen	Knitting machine	3	7
IcMullen & Hollen	Knitting stockings	3	3
CMullen, John	Net or seine making machine	3	~
Charles Charles	Filtering water	11	22
IcMurtry, Charles	Bellows	11 20	3
IcNamara, Charles	Supporters, uterine	2	
EcNamara, Charles		2	
1cNary, Isaac		5	1
CNary, Isaac	Window sash, cast iron	2	(
IcNary, John		2	
IcNeel, Jonathan	Hammer, hanging forge	2	
EcNitt, Alexander		12	2
acOmber, Richard Comber, Richard	Press, cheese	14	2
CPharrin, A. A.	Bellows, tub	ii	2
CThorndike, John		3	Ĩ
CWhorter, James		14	2
IcWilliams, Alexander			
1cWilliams, Alexander		5	1
dc Williams, Alexander*	Heating carriages, &c	5	1:
Nagle, Patrick G	Boots and shoes, water-proof	16	2
	Composition for boots		1
		16	_
	Railroad tracks for cars, to turn short	}	
laglee, Henry M	Railroad tracks for cars, to turn short	. 9	1
laglee, Henry M	Railroad tracks for cars, to turn short curves	· 9	
Jaglee, Henry M	Railroad tracks for cars, to turn short curves	· 9	1
Inglee, Henry M	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c Distilling Mill stones, dressing Water wheel, tub	9 9 4 13 11	1 1 1 2 2
Inglee, Henry M	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 9 4 13 11	1 1 1 2 2
Taglee, Henry M	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c Distilling	9 9 4 13 11 1	1 1 2 2
Taglee, Henry M., and Thomas Raney. Iaglee, Henry M., and Thomas Raney. Iapier, David P. Iapier, David P. Iarracong, David. Iarramore, Horace. Iash, Aaron	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 9 4 13 11 1 1 1 4	1 1 1 2 2
Iaglee, Henry M., and Thomas Raney Iance, James R Iapier, David P Iapier, David P Iarracong, David Iarramore, Horace Iash, Adkins.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 4 13 11 1 4 11	1 1 1 2 2 2
Iaglee, Henry M., and Thomas Raney. Iaglee, Henry M., and Thomas Raney. Iance, James R. Iapier, David P. Iarracong, David P. Iarramore, Horace. Iash, Aaron. Iash, Adkins.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 4 13 11 1 4 11 14	1 1 1 2 2 2
Taglee, Henry M., and Thomas Raney. Iance, James R. Iapier, David P. Iapier, David P. Iapier, David M. Iarracong, David. Iarramore, Horace. Iash, Adkins. Iash, John.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 9 4 13 11 1 4 11 14 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 2 1 2 2
Iaglee, Henry M., and Thomas Raney. Iaglee, Henry M., and Thomas Raney. Iance, James R. Iapier, David P. Iapier, David P. Iarracong, David. Iarramore, Horace. Iash, Aaron. Iash, Adkins. Iash, John. Iash, John. Iash, Sylvester.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 9 4 13 11 1 1 1 4 11 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 2
Iaglee, Henry M., and Thomas Raney. Iaglee, Henry M., and Thomas Raney. Iance, James R. Iapier, David P. Iapier, David P. Iarracong, David. Iarramore, Horace. Iash, Aaron. Iash, Adkins. Iash, John. Iash, John. Iash, Sylvester.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c Distilling Mill stones, dressing Water wheel, tub Smut, wheat rubber Soythes, manufacturing Composition for axletrees Wind wheel, &c Blocks of wood, paving Plough Plough Barrels, gun, turning Iron, &c., forging, stamping, and cut-	9 9 4 13 11 1 1 4 11 14 1 1 19	11 11 12 22 22 22 22 22 22 22 22 22 22 2
laglee, Henry M., and Thomas Raney. lance, James R. lapier, David P. lapier, David P. larracong, David. larramore, Horace. lash, Aaron. lash, Adkins. lash, John. lash, John. lash, Sylvester. lash, James. lason—see Scammon.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 9 4 13 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 2 1 2 2
Inglee, Henry M Inglee, Henry M., and Thomas Raney. Iance, James R Iapier, David P Iapier, David P Iarramore, David Iarramore, Horace Iash, Aaron Iash, Adkins Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iash, John Iason Iason Iason	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 9 4 13 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 1 2 2
Jaglee, Henry M Jaglee, Henry M., and Thomas Raney. Jance, James R Japier, David P Japier, David P Japier, David P Jarracnog, David Jarramore, Horace Jash, Aaron Jash, Adkins Jash, John Jash, John Jash, John Jash, John Jash, John Jash, John Jash, John Jash, John Jash, John Jash, John Jason—see Scammon Jaylor, John Jaylor, John Jaylor, John Jaylor, John	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c Distilling Mill stones, dressing Water wheel, tub Smut, wheat rubber Soythes, manufacturing Composition for axletrees Wind wheel, &c Blocks of wood, paving Plough Plough Barrels, gun, turning Iron, &c, forging, stamping, and cutting: machinery operated by steam Spirits, extracting from starch, &c Distilling, still for, &c	9 9 4 13 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 2 1 2 2
Jaglee, Henry M Jaglee, Henry M., and Thomas Raney. Jance, James R. Japier, David P. Japier, David P. Japier, David P. Japier, David M. Jarramore, Horace. Jash, Aaron Jash, Adkins. Jash, John Jash, John Jash, John Jash, Sylvester. Jasmyth, James. Jason—see Scammon Jaylor, John. Jaylor, John. Jaylor, John. Jaylor, John. Jaylor, John. Jaylor, John. Jaylor, John. Jaylor, John. Jaylor, Peter.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 9 4 13 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 2 1 2 2 3
Jaglee, Henry M., and Thomas Raney. Jance, James R. Japier, David P. Japier, David P. Jarracong, David. Jarracong, David. Jarramore, Horace. Jash, Adron. Jash, Adkins. Jash, John. Jash, John. Jash, Sylvester. Jash, Sylvester. Jason—see Scammon. Jaylor, John. Jaylor, John. Jaylor, Peter. Jaylor, Peter.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 9 4 13 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 12 22 22 23 33 34 11 12 12 11 12 11 12 11 11 11 11 11 11
Iaglee, Henry M., and Thomas Raney. Iaglee, Henry M., and Thomas Raney. Iance, James R. Iapier, David P. Iapracong, David P. Iarracong, David. Iarramore, Horace. Iash, Aaron. Iash, Adkins. Iash, Adkins. Iash, John. Iash, John. Iash, Sylvester. Iash, John. Iash, Sylvester. Iason—see Scammon. Iaylor, John. Iaylor, John. Iaylor, Peter. Iaylor, Peter.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 9 4 13 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 12 22 22 23 33 34 11 12 12 11 12 11 12 11 11 11 11 11 11
Iaglee, Henry M., and Thomas Raney. Iaglee, Henry M., and Thomas Raney. Iance, James R. Iapier, David P. Iapier, David P. Iarracong, David. Iarracong, David. Iarramore, Horace. Iash, Aaron. Iash, Adkins. Iash, Adkins. Iash, John. Iash, John. Iash, Sylvester. Iasmyth, James. Iason—see Scammon. Iaylor, John. Iaylor, John. Iaylor, John. Iaylor, Peter. Iaylor, Peter. Iaylor, Peter. Iaylor, Peter. Iaylor, Peter. Iaylor, Peter. Iaylor, Peter.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 4 13 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 12 22 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24
Inglee, Henry M., and Thomas Raney. Vance, James R., Vapier, David P., Vapier, David P., Varracong, David Vash, Adron Vash, Adkins Vash, John Vash, John Vash, Sylvester Vasmyth, James Vason—see Scammon. Vaylor, John Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, Peter Naylor, T. B.	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c	9 9 4 13 11 1 1 4 11 1 1 1 1 1 1 1 1 1 1 1	11 12 22 22 23 33 11 12 22 23 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25
laglee, Patrick G. Jaglee, Henry M., and Thomas Raney. Vance, James R. Vapier, David P. Vapier, David P. Varracong, David. Varramore, Horace. Vash, Aaron. Vash, Adkins. Vash, John. Vash, John. Vash, John. Vash, John. Vash, John. Vash, John. Vash, John. Vash, John. Vash, Jerer. Vasmyth, James. Vason—see Scammon. Vaylor, John. Vaylor, John. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Peter. Vaylor, Vaylor, Peter. Vaylor, Peter. Vaylor, V	Railroad tracks for cars, to turn short curves. Railroad scrapers, &c Distilling Mill stones, dressing. Water wheel, tub Smut, wheat rubber. Scythes, manufacturing Composition for axletrees. Wind wheel, &c Blocks of wood, paving Plough Plough Barrels, gun, turning Iron, &c, forging, stamping, and cutting: machinery operated by steam Spirits, extracting from starch, &c Distilling, still for, &c Walls and ceiling, protecting from fire Roofs, covering with metal Roofs, metal supporting. Roofs of houses, &c securing tin plate, &c., on Saw mills Cooking stove	9 9 4 13 11 1 1 4 11 1 1 1 1 1 1 1 1 1 1 1	11 12 22 23 33 11 12 12 12 12 12 12 12 12 12 12 12 12

^{*}In classification incorrectly printed "J. M. McLaughlin," etc.

PATRITICAL.	ENVENTIONS OR DISCOVERMEN-	CLASS.	PAGE.
Meal, Henry G	Corn sheller	1	1
	Lamps, lard	5	136
	Smut machine	1	94
	Carriages	10	908
	Printing press	18	327
	Bedstead, sofa	17	300
	Saw mill gauge	14	275
Meefus, David	Winnowing machine, &c	1	35
	Wheel, spur gear for bevel	13	961
	Chimneys, cast iron copings	5	194
	Cutting sausage meat	17	311
	Traps for rats	22	359
	Stoves	5	136
	Spinning, domestic, wool spinner	3	94
	Suspenders, manufacturing	21	354
	Cultivator	1	10
	Horse power, &c	18	251
Selson, T. H.—see Young, E. W.	F ,		
	Wringing dyes from cloth	3	96
	Springs, elliptical, setting and fitting.	10	211
	Cutting vegetables	17	312
	Nails, cutting, &c	2	52
	Crackers, cutting	17	311
Newall, Robert S	Wire ropes, machine for making	2	4
	Harrow, hoe	ĩ	1 2
	Shoulder iron, shoemakers'	16	300
	Fabrics, water-proofing	3	71
Newbold, Charles	Plough	ĭ	iš
	Tobacco, curing	i	33
	Spinning, wool and cotton	3	94
	Washing machine.	17	317
Newbury, George J	Printing with metallic and colored		711
wow but y, deorge s	powder	18	397
Newbury, Josiah W	Water power to mills	ii	999
	Plane, accelerating, &c	14	271
	Lock, percussion, concealed	19	336
		14	200
	Shingles, &c., dressing	3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Loom, temples	2	<u></u>
	Locks, &c Docks, construction of	2	- -
	Lock, door, combination	2	56
		8	196
	Planetarium.	3 1	186
New England Class Company and T	Clocks, astronomical	•	100
New England Glass Company—see T. Laighton.			
	Wool combine &c	3	95
New England Worsted Company	Wool combing, &c Trees, protecting from manker-worm	il	ũ
		[395
	Piano forte	18	340
Newhall, Daniel B., and Levi Wilkins,	Diama famta harry Carr	10	-04
	Piano forte, keys for	18	395
	Washing machine and press	17	316
	Plane, bevel wheel, for planing	14	271
Newhall, Timothy	Spark catcher	16	155
Newhall, Timothy	Ruling machine, double	18	398
Newhall, Timothy, jr	Explosion of boilers, preventing	6	153
Newhall, Timothy, jr	Nails, manufacturing	2	58
Newman, Edward	Water wheel, tub		965
Newman, F. H	Truss	20	344
Newman, John I	Excavator, mud machine		196
Newman, Joseph	Pump, fire engine	11	296
lawman, Thomas	Grist mill	13	35
Sewman, Thomas	Corn sheller	20	3
Tewson, John W	Truss	20	344 388
Susruom, Lewis		16	

PATR OTING .	ENVENTIONS OR DISCOVERSES.	CLASS.	PAGE.
Newsom and Schule	Power, propelling, machinery	13	200
Newsom, T. D	Power, propelling, machinery	13	900
Newton, Alfred	Auger, spiral screw	14	26
Newton, Arad B	Combe, manufacturing, &c	21	350
Newton, Charles	Teeth, to keep free from saliva, &c	20	343
Newton, Daniel	Clapboards, machine	14	26
Newton, Daniel	Clapboards, sawing Tin ware, machine for double seaming	J4	267
Newton, Elias W	Fireplace, or stove	2 5	12
Newton, Elias W	Grates, &c	5	13
Newton, Elias W	Stoves, manufacturing	5	14
Newton, Israel	Tansey, essence	4	iii
Newton, Joseph	Saw mill machinery	14	270
Newton and Laning	Hydrants	11	22
Newton, Levi	Pump, foreing	11	22
Newton, Martin	Spinning, fliers, &c	3	90
Newton, Orrin	Knobs, screw for glass	2	48
Newton, Philo S	Fire arms, attached muzzle	19	334
Newton, Phineas	Sew, gumming the teeth of	2	57
Newton, Phineas	Saw, gumming the teeth of	2	57
Newton, Phineas	Saw, gumming the teeth of, &c	2	5
Newton, Samuel	Sawing round bodies	14	277
Newton, Samuel	Horse power	13	25
Newton, Simeon	Bella for cows	2	44
Newton, Sereng	Printing press, double cylinder, &c	18	327
Newton, Sereng	Printing press, double Napier	18	397
Newton, S Newton, William	Spectacles, &c	8 17	180 317
Nicholas, Joseph	Plants, insects, &c., mode of destroy'g	i	1
Nicholls, Jonah	Nails, wrought	2	54
Nicholls, Reuben	Sawing timber, &c	14	277
Nichols and Childs	Fire arms, many-chambered	19	334
Nichols, Daniel	Hats, bowstring for	3	7
Niehols, Eli B., and David Marsh	Grinding grain, mills for	13	955
Nichols and Fairbanks	Flax and hemp dresser	3	75
Nichols, George,	Carriage bodies, connecting with the		1
	perch by means of springs	10	900
Nichols, Geo., (ass'ee of J. J. Greenough)	Mortising machine and bosing hubs.	14	270
Nishols, Henry N	Scaffolds, raising, &c	14	27
Nichols, Howard	Steering boats, brace for	7	17
Nichols, Israel	Press, cheese, &c	12	2942
Nichols, Jeremiah	Winnowing machine	.1	24
Nichols, John	Sufter, grain, &c.	13	26
Nichols, Jona	Spring seat for carriages	10	91 102
Nichols, Jona., jr	Color, preparation with lime	4	202
Nichols, Martin Nichols, Perkins	Seeding, planting machines	1 14	26
Nichols, Robert L	Preserving wood, &c	7	17
Nicholson and Gunn	Pumps	1i	224
Nicholson, John	Serews, casting	2	57
Nicholson, John	Wheels, boxes for	10	919
Nicholson, Robert	Paint, making ores into	4	113
Nicholson, R. and T.	Shingles, dressing	14	276
Sicholson, Samuel	Windlass, ships'	12	940
Richolson, Thomas	Churn	1	1
Nicholson, Thomas	Churn	1	
Nicholson, Thomas,	Pumpe	11	924
Nickols, Edward, and James Augur			
	cite	3	43
Nickolls, Eli	Washing machine	17	310
Nickols, M. and J.	Seeding, corn planter	1	25
Nicol, George	Books, trees, &c	16	991
	Steamboat wheels, &c	7	177

	T		1
Patentrin.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Nicolls, Gustavus A	Railroad, safety switch for	9	196
Nicolson, Samuel	Ice breaker, for boats & other vessels.	7	170
Nicolson, Samuel	Signals, railroad alarm	8	186
Nicolson, Samuel	Steering apparatus	7	177
Nield, James	Loom, power	3	81
Nield, James	Loom, power	3]	81
Nield, James—see Duxbury, C.	_		
Nield, James	Loom, power	3	81
Nims, Warren	Boiler, for heating liquids	5	123
Nine, Daniel, jr	Carriages, hand	10	208
Nisbet, Samuel	Plough, cast iron	1 1	19
Nivens, W. R.	Crackers, cutting and rolling	17	311
Nivens, W. R	Crackers, cutting	17	311
Nixon, George	Plough	1 1	16
Nixon, Samuel	Dough, kneading		312
Noble, Andrew	Thrashing machine	1 1	29
Noble, David	Tin plate, manufacturing	2	61
Noble, James W	Composition for taking off place of	16	303
Noble, John	Composition for taking off glaze of		100
Makin Dhilandan	mill stones	7	163 179
Noble, Philander	Propelling boats	2	54
Noble, Roswell	Nails, &c	2	5 <u>1</u>
Noble, Roswell	Nails, cutting	17	314
Noble, Sylvester	Washing machine		54
Nock, Joseph	Locks, trunk	2	50
Nock, Joseph	Leaf holders	18	323
Noe, Charles L	Hats and bonnets of horse hair	3	77
Nold, Henry	Weights, raising	12	245
Nollner, Jacob	Velocity on railroads, &c	1 72 1	212
Nolt, Jonas	Smut machine, cleaning grain, &c	il	25
Nones, Joseph B	Nankeen, making, &c	3	84
Norcross, Adna L	Chura	1 1	6
Norcross, Adna L	Grist mill	13	253
Norcross, Adna L	Grist mill	13	253
Norcross, Jonathan	Saw-guides, mill	14	273
Norcross, Leonard	Mill stones, dressing	13	258
Norcross, Leonard	Spinning	3	89
Norcross, Leonard	Stumps, &c., extracting	9	200
Norcross, Leonard	Diving suit, elastic	7	170
Norcross, Leonard	Nails, wrought	2	<u>54</u>
Norcross and Pollard	Brick, press, &c	15	287
Norcross, Thomas	Brick, press.		286
Norris, Elisha O	Fulling mill, &c		74
Norris, H. Ariel	Surveying, hydrographic art of		200
Norris, H. Ariel	Boring and tapping water pipes, under		010
Norris, H. Ariel	hydrostatic pressure		219
1401110, 11. MICI	Boring, tapping, and reaming water	11	219
Norris and Phillips	pipes, under hydrostatic pressure Napping cloth	3	84
Nerris, William, (assignee of S. Norris		1 " 1	•
and William Knight	Carriages of locomotive steam engine	10	206
Norris and Wood	Shoes, socks, &c		300
North, Alvin	Saddle bag fastenings	16	300
North, Linus	Flues of stoves	5	128
North, Lynus	Combs, metallic	21	350
North and Naramor		14	261
North, Oren S			48
North, S.—see Savage, E.	1	1 1	
Northrop and Dillon	Fulling cloth	. 3	74
Northrop, Isaac	Nails, cutting, &c.	.1 2 1	523
Northrop, Jedediah	. Grist mill	. 13	259
Northrup, Joel G	Printing press	.1 18 1	398 398

PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Norton, Abraham	Press, increasing	12	944
Norton, Alexander	Press, cheese	12	241
Norton, A. P.—see Taylor, W. H.	,		
Norton, A. P., and Morris Owen	Bark mill	13	250
Norton, Benjamin	Metal, rolling	2	51 co
Norton, George M	Stove, (design)	3 5	68 137
Norton, George M	Stove, cooking	5	142
Norton, Hiram L	Plough	ì	18
Norton, Isaac	Thrashing machine	1	30
Norton, Job B	Plough	1	18
Norton, John L	Plough, self-sharpening	1	21 14
Norton, John L	Hulling rice, &c	i	14
Norton, John L	Rice mill, steam	13	260
Norton, John L	Hulling rice, &c	1	15
Norton, Joshua, jr	Signal paper, machine for drying	3	. 89
Norton, Lewis M	Cheese net	1	4
Norton, Lewis M	Press, cheese	1 12	240
Norton, P.—see Bulkley, W.	11000, 0110000	-~	
Norton, Sereno	Harness, hames, &c	16	297
Norton, Stephen	Thrashing machine	1	31
Norwood, Burns, Rowe, and Haskell	Isinglase	4	109
Nott, Eliphalet	Fireplace	5 5	126 128
Nott, Eliphalet	Heat, evolution, &c	5	130
Nott, Eliphalet	Heat, evolution, &c	5	130
Nott, Eliphalet	Heat, evolution, &c	5	130
Nott, Eliphalet	Heat, evolution, &c	5	130
Nott, Eliphalet	Heat, evolution, &c	5 5	130 130
Nott, Eliphalet	Heat, evolution, &c	5	131
Nott, Eliphalet	Metallic bodies, &c., treatment of	5	131
Nott, Eliphalet	Stoves, anthracite coal	5	138
Nott, Eliphalet	Stoves, anthracite, ash pit, closing	5	138
Nott, Eliphalet	Stoves, anthracite, brick, &c	5 5	138 138
Nott, Eliphalet	Stoves, anthracite, damper & handle Stoves, anthracite, lining, &c	5	138
Nott, Eliphalet	Stoves, anthracite, moveable flat, &c	5	138
Nott, Eliphalet	Stoves, anthracite, mica sashes for	5	138
Nott, Eliphalet	Stoves, anthracite, sectional tops for	5	138
Nott, Eliphalet	Stoves, anthracite, vertical grate	5 6	138 152
Nott, Eliphalet	Boilers, steam, &c Steam, generating	6	162
Nott, Eliphalet	Cooking stove, &c	5	143
Nott, Eliphalet	Cooking stove, &c	5	143
Nott, Eliphalet	Cooking stove, &c	5	143
Nott, Eliphalet	Stoves, coal, applied to furnaces	5	144 185
Nott, Eliphalet	Lotteries Stove pipe	8 2	61
Nourse, Asa	Hulling rice	ĩ	15
Nourse, Asa	Hulling rice	ī	15
Nourse, Asa	Hulling rice, &c	1	15
Nourse, Samuel	Boots and shoes, mode of holding	16	295
Noyes, Aaron	Comba twinning horn and shell	15 21	289 351
Noves, David E	Combs. cutting	20	350
Noyes, Isaac	Salt, making	4	115
Noves, isaac	Salt. making	4	115
Noyes, Josiah	Cooking stove, &c	5	144
Noyes, Samuel—see Kinsley, A. Nuckols, Hezekiah P	Bedsteads, cutting screws on	17	308
Nuckols, H. P. and P	Grist mill	13	252

PATENTESS.	inventions or disco vables .	CLASS.	PAGE.
Nackolls & Wheeler	Water wheel	11	900
Nall, Anthony	Saddle, trees	16	
Nunns, John F	Piano forte, action	18	365
Nens. William	Hats	_	×
Nutting, Mighill	Fire arms, many-chambered	19	334
Nutting, Mighill	Stone, cutting, &c	15	201
Oakely, George P	Sample box	14	273
Oaks, Calvin	Capstans, ships, for	7	169
Oaks, Joshua	Lights, glass, for ships	7	171
Oates, George	Lock, door	2	48
Obenchain, M. W	Carding machine	3	68
Oberhausser, Johannes	Spark catcher, flue	6	1.55
Oberhausser, Johannes	Springs for locomotives		211
Oberhausser, Johannes	Truss, corset	20	344
O'Brien, John M	Windlass, for weighing anchors	12	246
O'Brien, Samuel	Churn	1	7
Ochler, Andrew	Power, &c., engine	13	259
O'Connor, James	Boats, canal, &c	7	168
Odiorne, Thomas	Nails, manufacturing Boilers, steam, regulating height of	2	53
	water in	6	153
Odiorne, Thomas	Engine, fire	11	221
Odiorne, Thomas	Pump, for ships	11	227
Oelig, John J	Medicine, worm destroying	4	711
Oelig, John J	Pills, &c	4	113
Ogden & Ericson	Sounding instrument, &c	7	177
Ogden, Francis B	Steam engine, application of steam	.6	157
Ogden, James, and D. R. Hart	Windows, improvement in	9	200
Oge, Samuel	Plough	\1	16
Ogle, William	Plough	1	18
Olcott, Charles	Constructing ships.	1	
Olcott, Sands	Gum, extracting from unrotted hemp.* Flax and hemp, preparing, &c	3	74
Olcott, Sands	Flax and hemp, reducing the fibres.	3	74
Olcott, Sands	Yarn, washing and cleaning	3	96
Olcott, Sands	Car, for inclined planes, &c	10	206
Olcutt, Sands	Steam engine, &c	6	159
Olds, Calvin	Seeding, seed drill, &c	1	23
Olds, Ezra	Slitting boards	14	280
Olds, Luther	Axes, hoes, &c	2	39
Olds, Luther	Grist mill	13	253
Olds & Upham	Saw mills	14	273
Olds & Upham	Sawing machine		277
Oliphant, Robert W	Washing machine		317
Oliver, Benjamin L	Crank, anti-friction	13	251
Oliver, Charles F., and G. W. Jackson.	Piano forte		395
Oliver, Ebenezer	Traps for rats, &c,		359 106
Oliver, Samuel	Distilling, art of	21	354
20	Furnaces for anthracite	-1	128
		4	108
Olmstead, L. B	Baker, reflecting		123
Olney, Anthony	Propelling, wheels, &c	7	176
Olney, H., D. G. Raven, Jeremiah H.			
Whelpley	Steam engine		157
Olney, James	Napping, cloth		84
Olmey, James	Napper, teazling, &c	3	84
Olney, James N	Burners, anthracite coal	5	194
Olney, James N	Cooking stove	5.	140
O T		7	174
Ong, Jesse		:	174
Ong, Jesse	Churn	1 1	6 298

		_	7
PATENTRES.	INVENTIONS OR DISCOVERISMS.	CLASS.	PAGE.
Orbison, John	Oar head	7	173
Orbison, John	Timber, bending, &c	7	178
Orcutt, Samuel	Printing press, card	18	397
Orcutt, William A	Lightning conductors, &c		185
Ordroman, J	Balance, or fly wheel	13	249
Ore, Caleb A	Boots and shoes, manufacturing	16	294
Ormiston, John	Plough, self-sharpening		21
Ormsbee, Elijah	Engine, screw, &c	11	222
Ormsby & Cohoon	Grist mill	13	252
Orndoff, John	Spinning wool	3	94
Orr, Isaac	Stove, air tight	5	137
Orrick, William P	Car, railroad		206
Orth & Strohn	Shearing cloth	3	88
Osborn, Ezra	Trip hammer	2	62
Oaborn, John	Straw cutter	lĩ	26
Osborn, John, ir	Water wheel, horizontal	ıī	233
Osborn, John, jr	Razor strap		353
Osborn, Jacob	Alkali, extracting from ashes, &c	4	99
Osborn, Jacob	Window sash, fastening	2	63
Osborn, James P	Harness, horse collars, stretching		297
Osborn, Levi	Fulling mill, double crank	3	74
Osborn, Noah	Carts, &c., loading		209
Osborne, David	Churn	i	5
Osborne & Fraser	Shearing cloth	3	86
Osborne, John J., (assignee of William			
H. Porter)	Anchors	7	167
Osborne, Marmaduke	Hat bodies, mode of forming		76
Osborne, Marmaduke	Felting, for coats, hats, &c		71
Osborne, William E	Thrashing, cylinder, &c	1	28
Osgood, Alfred	Carriages, four-wheeled, coupling	10	208
Osgood, Charles	Composition, pencils, lead for		102
Osgood, Daniel, jr	Churn		210
Osgood, Gardner	Washing machine, and churn		318 54
Osgood & Hunt	Nails, &c	2	- 32
Usgood & Hunt—see Corning, E.*	Wanne & attaching hover de	10	212
Osgood, Jason C	Wagons, &c., attaching boxes, &c	10	~1.0
Osgood, J. C.—see Carmichael, D.	W/himmon action oblique	3	95
Osgood, Lucien	Whipper, cotton, oblique	1	314
	Stop cock		220
Ostrander, Jonathan F		13	257
Ustrander, Jonathan F	Mill	19	336
Oswan, Fred	Rifles	8	186
Otis, Bass	Protractor, perspective		270
Otis, Charles	Distilling apparatus	4	106
Otis, Charles	Churn, &c	li	1 18
Otis, Charles	Cutting sausage meat	1	311
Otis, Elisha	Loom, wire harness		84
Otis, Ephraim B.	Loom, temple, self-operating		82
Otis, Melville	Nails, at one operation	2	52
Otis, Melville	Nails, manufacturing	2	53
Otis, William S	Excavating and removing earth, crane	I	
·, · ·	excavator for		194
Ott, George	Mineral water apparatus		iii
Ottinger, William	Thrashing machine	ī	30
Otto, Henry C	Paint, white, mode of preparing	4	113
Overall, Israel	Boring rocks	9	191
Overall, Israel	Boring rocks	9	191
Overman, Benjamin	Sawing, mortising, &c	14	277
Overman, Benjamin	Sawing circular timber	14	277
Overman, Benjamin	Saw mills	14	274
Overman, Benjamin	Bed bug, destroving by steam	17	307
Overman, Benjamin	Grist mill	13	252
Overman, Benjamin	Comes & Bowes aminos of	,	

PATENTEES.	inventions or discoveries.	CLASS.	PAGE.
Overt, Peter	Power, &c., by weights	13	96
Owen, Edwin	Ditching, excavating, &c		195
		ĭ	16
Owen, Edwin	Cutting cane, &c		
Owen, Ethan	Saw mill, by animal power	14	274
Owen, Joseph P	Brick machine	15	985
Dwen, Orlando	Cisterns, rotary curve, &c	11	23
Owen, Parsons J	Brick making	15	286
Owen, Thomas G	Brick making	10	208
Owen, Thomas G	Thrashing machine	-i l	29
	Furnace, smelting, &c	2	44
Owings, John	D.llam impressed As	2	
Owings, John	Rullers, impressed, &c		56
Owings, John	Flax and hemp, preparing, &c	3	73
Owings, John	Wagon for removing earth	10	219
Owings, John	Water wheel, floating	11	239
Owings, John	Water wheel, mill, &c	11	233
Oxley, Thomas	Land, clearing	ī	15
		4	116
Oxnard, Thomas Oxnard, John	Sirup, apparatus, &cLocks, for banks and safes	2	50
•			
Pace, Henry, sr	Springs, carriages	10	210
Pace, Henry, sr	Bedsteads	17	308
Pack, George	Shingles and staves, &c., cutting	14	279
Pack, George	Staves, cutting, &c	14	280
Packard, Manning and Christian B	Winnowing, separating grain from		
	straw	1	35
Packard, Origen	Gate, water, opening, &c	11	222
Packard, Origen	Paint mill, &c	13	259
Packard, Otis	Heating buildings, apparatus for	5	130
Packard, Otis		5	128
	Furnaces, cooking, and air heating		===
Packard, Theophilus	Pipes, fire, testing	11	224
Packard & Strong	Steam, applying	6	156
Paddleford, John	Pump, forcing	11	226
Paddleford, Peter	Spinning wool, &c	3	94
Padley, Moses	Wind wheel	11	235
Page, Calvin	Corn sheller	1	8
Page, Ezekiel	Oars, machine for turning	14	271
	Cars, macanic for arrining.		
Page, Ezekiel—see Benson.	Manufation and Manager		OPTR
Page, George	Mortising machine	14	278
Page, George	Mortising and boring machine	14	270
Page, George	Mortising chisel	14	270
Page, George	Mortising chisel, cutting, &c	14	270
Page, George	Mortising timber	14	271
Page, George	Mortising in wood	14	271
Page, George	Bit, spiral, &c	2	40
	Drill steels grand	2	42
Page, George	Drill stock, geared		
Page, George	Seeding, seed planting machine	1	.23
Page, George	Excavating, &c., ditches	9	195
Page, George	Boring earth, auger for	9	191
Page, George	Saw mill, portable circular	14	276
Page, George	Horse power	13 l	255
Page, G. and E.	Hats, planking	3	78
Page, John	Carriage, two-wheeled	10	209
Rage, John A	Furnace for heating, &c., apartments.	5	128
Page, Jonathan	Mortising machine	14	270
Page, Joseph R	Cooking stove, domestic	5	143
Pagett, Washington F	Thrashing machine	i l	31
	Plough, shovel	i l	21
Dagin John		il	25
Pagin, John	Smut machine		
aign. Harvey	Rolling leather	16	298
	Fair: Deciserion of Miliginas	4	113
Paimbœuf, LouisPain & Bennet, (Paine, assignee of Havi-	rains, protection or bundings	-	

^{*} In classification Haviland & Bennett, nothing stated of assignee. Correct in this.

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
m ·	n 1		
Paine, Charles F	Presses, hay	12	24
Paine, Charles F	Water wheel, current	11	23
Paine, Ephraim	Extinguisher, and chimney sweeper.	8	19 18
Paine, Henry M	Glass lens, improvement in	10	21
Paine, Otis	Shingle machine	14	27
Paine & Russell	Apple mill	13	24
Paine, William	Distilling, still for	4	10
Palmer, Aaron	Horse power, endless chain	13	25
Palmer, Alfred	Cistern, water, &c	11	22
Palmer, Arnold	Temples for looms, self-acting	3	8
Palmer, Augustus C	Hinges or butts for hanging window		_
na na maran	blinds	2	4
Palmer, Benjamin F	Leg, artificial	20	34
Palisse & Durfee	Chain, &c., used on canals, &c	9	19
Palmer, Freeman	Nails, manufacturing	2 16	29 29
Palmer, Freeman	Curriers' knife	10	29
Palmer, George W	Plough	4	11
Palmer, Gideon	Press, cotton, &c	12	24
Palmer, Granville	Cart, for removing gravel on railroads		20
Palmer, Green B	Gold, separating, &c	2	4
Palmer, Isaac S	Thrashing machine	ĩ	3
Palmer, John	Water wheel, inclined	11	23
Palmer, John C,	Door, fastenings	2	4
Palmer, Joseph	Washing machine	17	31
Palmer, Junis P	Thrashing machine	1	3
Palmer, J. G., H. and A. Beard	Saddles, spring seat	16	29
Palmer, Lewis R	Hides, constructing rollers for pressing	16	29
Palmer, L. O.—see Seymour, J. F.			
Palmer, Moses	Wheel hub, lining metallic boxes for.	1)	214
Palmer, Nathan	Window blinds	9 17	20
Palmer, Rufus R	Washing machine and churn	9	318 19
Palmer, Urban	Bridges Trip hammer	2	6
Palmer, Waterman B	Logs, setting	14	27
Palmer, William	Raising water	īi	22
Palmer, William	Stone, saw mill	15	29
Palmer, William B	Smut machine	1	2
Palmer, W. C	Bath, cot, elastic	20	34
Palmerler, Heman	Carding machine	3	6
Palmeter, Phineas, jr	Propelling wheels, for boats	7	170
Pancost, William C	Ploughs, &c	.1	19
raram, william S	Frame work of mills	13	25
Parce, Ephraim	Potash, manufacturing, &c	4	11:
Parce, J. & N., jr. (Parce in classificat'n.)	Pearl ash	i	110
Pardee, Peter Pardee, William	Agriculture, improvement	8	18
Pardie, William	Time piece	š	18
Parish, Levi H	Beehive, &c	Ιİ	
Parish, Nathan	Washing machine	17	31
Park & Brewster	Stone, cutting, &c	15	29
Park, Ira	Churn, &c	1	
Park, Jesse K	Manifold letter writers	18	323
Park, Moody	Boilers, steam, purifying water	6	159
Park & Peck	Cotton, wadding	3	7
Parke, Charles.	Cordage, rope, serving	3	70
Parke, James P	Bells, for fire engines	.2	90
Parke, L. Z	Ware, wooden	14 13	. 282 256
Parker, Amos	The ship washing	13	230 33
Parker, Amos	Thrashing machine	15	286
- m invr) +Filifog	Dilor and molestonessessessesses		
Parker. Charles	Bark mill	13	250

PATRICTORA.	inventions or discoveries.	CLASS.	PAGE
Parker & Clover	Picture frames, ornamental	18	34
Parker, Clowes, & Garfield	Cement, hydraulic	4	ī
Parker, Edmund	Latch, thumb, for doors	i	1
Parker, Eliphalet H	Scales, counter	12	24
Parker, Elmon—see Young, J.	1		
Parker & Engle	Water wheel	11	23
Parker, Ephraim	Shingle sawing	14	27
Parker, Ephraim and Thomas	Composition for glazing	4	16
Parker, Fielder	Charcoal, for gunpowder	5	19
Parker, George Parker, George	Clocks, striking part	13 8	25 18
Parker, Gideon	Velocipede, chiro	10	21
Parker, James	Brick press, and self-moulding	15	28
Parker, James	Brick, shape of, &c	15	28
Parker, James	Mortar, tub mill	15	29
Parker, James, M. D	Brick and tile press	15	28
Parker, John	Smut machine	1	9
Parker, Joseph I	Steam engine, rotary	6	16
Parker, Joseph J	Saw mill, self-acting, head, &c	14	27
Parker, Luke	Pessaries	20	34
Parker, Moses P	Washing machine	17	31
Parker, Obadiah Parker, Obadiah	Cistern water	11 4	29 10
Parker, Obadiah	Sewer of hydraulic cement	9	20
Parker, O. and D	Clapboards, sawing	14	26
Parker, Samuel	Currying, &c., leather	16	29
Parker, Samuel	Currying leather	16	29
Parker, Samuel	Shaving leather, &c	16	30
Parker, Samuel	Tanning leather	16	30
Parker & Sandford	Shingle shaving	14	27
Parker, Sylvester	Cooking stove, &c	5	14
Parker & Smith	Corn shelling	1	05
Parker & White	Coffee mill, &c	13	25 18
Parker, Zebulon, (and Robert McKelvey	Gout, &c., cure for	•	10
administrator of Austin Parker, dec'sed	Water wheel, reaction and percussion	11	23
Parker, Z. A (not in classification)*	Hydraulic power		
Parkerson, John	Window blinds	9	20
Parkhurst, Aaron	Clay, mixing	15	28
Parkhurst & Bacon	Power, propelling, &c	13	26
Parkhurst, Curtis	Fire arms, many-chambered	19	33
Parkhurst, John, jr		5	14
Parkhurst, Stephen RParkhurst, Stephen R	Propellers, shipping and unshipping.	7 3	17
Parkhurst, Stephen R		3	7
Parkhurst, Stephen R			9
Parkhurst, Stephen R		3 3	6
Parkhurst, Stephen H	Doffer	3	7
Parkhurst, S. R.	Napping cloth, &c	3	8
Parkhurst, Ziba	Carding, composition, applied	3	6
Parkinson, George		3	7
Parkinson, George	Spinning flax, &c	3	8
Parkinson, Thomas	Harness, horse cellars, cutting the		00
Parkinson, William	leather of	16	29 25
Parks, Elias.	Grist mill	13	20
Parks, Stephen, ir	Valves, cut-off, for steam engines.	6	16
rarmeiee, Daniel	d Churp.	ĭ	10
rarmelee, David	Sawing various articles, dic.	14	27
Parmelee, David	Water wheel, horizontal	11	23
Parmelee, David.	Annies, grinding, &c	13	24
Parmelee, Francis D	Tanning.	16	30
rafineice, Menry	Mortising machine	14	27
Parmelee, Howell		5 !	13

^{*} Patented October 29, 1829.

PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Parmelee, H.—see Choller, J. B.			
Parmele, James	Stove, cooking	5	140
Parmelee, Lenmon	Raising water	11	226
Parmelee, Luman	Spinning speeder, &c Boats, canal, sheet iron, twin	3 7	92 168
Parmelee, Marcus B	Racket and wheel	13	260
Parmelee, Marcus B	Steam, applying, &c	6	156
Parmelee & Moores	Grist mill, scouring, &c	13	254
Parmelee, Samuel	Combs, manufacturing, &c	21	350
Parmelee & Shoemaker	Grist mill Oil, linseed, for varnish	13 4	253 112
Parmly, Levi S	Teeth, composition for, &c	20	343
Parr & Fowler	Lock, door	2	49
Parrish, Nathan	Stoves	5	136
Parrott, William W	Cooking apparatus	5	125
Parry, Benjamin	Kilin, for drying grain Stoves, covering the rods, &c	5 5	131 144
Parry, John C	Syringes, enema	20	343
Parshley & Furbish	Cooking stove	5	140
Parsons, Aaron	Thrashing machine	1	32
Parsons, Bishop N	Napping cloth	3	84
Parsons, Daniel H	Water wheel	11	231
Parsons, Eli	Combs, manufacturing, &c	21 5	350 131
Parsons, James, jr	Thashing, &c., clover seed	1	28
Parsons, James, jr	Plough, combined	ī	18
Parsons, Lemuel H	Springs, carriage	10	210
Parsons, Ludlam M	Shingles, cutting	14	278
Parsons, Osborn	Rectifying spirits	4	114 115
Parsons, Seth	Salt, boiling	2	59
Parsons, Seth	Shearing cloth	3	88
Parsons, Seth	Shearing cloth	3	88
Parsons, Seth	Currier's knife	16	296
Parsons, Stephen	Water wheel, re-action, moulding pre-	.,	234
Parsons, Stephen	paratory to casting	11	202
·	tion	13	260
Parsons, Stephen	Window sash	9	201
Partarrien, J. B	Tobacco, snuff cutter, or, &c	22	358
Partridge, Benoni F	Rake, grain	1	21
Passmore, Thomas	Cooking, &c	5 2	126 44
Past, Joan C	Railroad switches, self-adjusting	9	199
	Bee hives	ĭ	3
Patrick, George	Table, for the use of ships	7	178
	Plough	.1	16
Patrick, William	Lathe, turning	14	268
Patridge, John	Ware, wooden, &c Thrashing machine	14	282 28
	Boiler, steam, safety valves	6	153
Patterson, Abram	Steam engine, &c., apparatus, &c	6	157
Patterson & Burdock	Spinning, roping, &c	3	92
Patterson, George	Raising water from wells	11	228
Patterson, James	Hatcheling machine	3	50 76
Patterson, James H	Paving, blocks of wood for	9	197
Patterson, Thomas J., assignee of Wm.	Furnace, blast	2	43
Coburn	Leather, rolling	16	298
Patton, Alexander	Screws and nuts, cutting, &c	2	.58
Patton, John M	washing mashing	7	171 317
Patton Thomas sen	Car, and way for moving weights, &c.	10	207

PATENTEES.	INVENTIONS OR DISCOVERSIA.	CLASS.	PAGE.
Patton, William	Springs, carriages	19	92
	Oil, Columbian	4	12
	Wheel hubs, mortising	10	91
	Glue, manufactures of	4	10
	Stirrup, safety spring	2	6
Pawling, Abm	Car, &c., propelling	10	90
Pawling, Charles	Plough	1	15
Payne, Asahel E	Wind wheel	11	231
	Washing machine	17	314
Payne, Charles	Salting animal matters	4	114
	Cooking stoves	5	120
Payne, Elisha D., and Enos Woodruff §	Screens for sifting coal, &c	5	135
Payne, George J	Stoves	5	136
Payne, George J	Heating and boiling water	5	130
Payson, H. M.—see Hartshorn, O. J.		1	
	Saddles, spring	16	999
	Press, lever	12	244
	Shingles, cutting	14	278
	Press, cotton	12	949
	Cooking stove, heating	5	143
	Press, cotton, &c	12	942
	Press, cotton	12	949
	Splitting skins, machine for	16	301
	Saw mills	14	273
	Stoves, soapstone	5	146
	Stoves, cooking	5	ië
	Bank notes, preventing counterfeits	18	381
	Oil, linseed, substitute for	4	113
Peahody William H	Winnowing grain	il	34
Peabody, William H	Spinning wheel heads	3	93
Peachy, Henry	Plough	i	17
	Plough	il	30
Peachy, Henry	Plough, &c	16	303
	Tanning, &c		16
	Plough	1 1	16
	Plough	i l	16
Peacock, David	Plough	20	341
	Bath, vapor, portable	9	191
	Bridges	5	126
	Fireplace	7	179
	Preserving vessels from worms		
	Propelling boats	7	179
	Spinning machine	3	98
	Grist mill	13	954
	Washing machine, &c	17	318
	Cooking stove	5	139
	Power, maintaining	.7	171
	Boxes, sugar	14	266
	Dye, blue	4	197
Pearson, Josiah O 1	Nails, cutting	2	52
	Life preserver, for the use of steamboats	7	171
	Fuel, burning, &c	5	198
	Steam engine, rotary	6	161
	Rectifying spirits	4	114
	Smut machine	1	23
Pease, Daniel jr	Buckwheat, machine for cleaning	1	4
Pease & Donalds E	Bark mill, cutting, &c	13	250
Pease, Horace		1	16
Pease, Samuel, jr	smut machine	.1	23
Peasley, Jedediah I	Lime, manufacturing, &c	15	289
Peasley, Aaron M	Organs	18	394
eavy. Joseph S	Screws, cutting wooden	14	279
		30 1	~~
Peck, Benjamin C	Parriage	10	987
Peck, Benjamin	Boots and shoes, manufacturing	16 12	294 242 243

		-	
Patriyang.	INVENTIONS OR DISCOVERING.	-CLASS.	PAGE.
Pack, George	Water wheel	11	230
Peck, Jacob	Cord and cane cutters	1	090
Peck, James M	Balance, platform	12	239 63
Peck, J. H., W. Thomas, R. Walsh, and		. ~	
J. D. Coaker, assignees of John Thomas		9	193
Peck, Lauren M	Vice, standing, or bench	14	282
Peck, Lemuel	Winnowing machine, &c	1	35
Peck, Lemuel	Corn sheller	1	140
Peck, Noble	Stove, cooking	5 2	140 51
Peck, Orrin and Noble	Steve, cooking	5	142
Peck, Seth	Tin ware	2	62
Peck, Thomas	Staves, cutting, &c	14	280
Peckham, Charles W	Faucets, molasses	11	222
Peckham, Charles W	Stoves, heating apartments	5	145
Peckham, C. W	Coffee mill	13	250
Packham, John S. & M	Stove, design	5 5	137 137
Peckham, J. S. & M	Stove, design		137
Pedder, James.	Stove, parlor		146
Peeble, Albert	Plough		20
Peobles, Jacob	Cisterns, brick		220
Peeler, David	Lathe, gripe chuck for		268
Peers, Valentine	Salt, manufacturing		115
Peevy, Joseph	Sawing machine		277
Peirce, Hosea	Cigars, machine for making		357 227
Pell, John B	Boring wood		266
Peltier, Felix	Propelling vessels	7	175
Palton, A. S.	Doors, weather strips for	9	194
Pelton, A. S	Shingle machine	14	279
Pelton, David	Bark, grinding		249
Pendell, David L. (in classificat'n D. & L.)	Garments, measuring and cutting	21	352
Pender & Horn	Loom, power	3	81 111
Pendergast, Garret E	Mineral water, family fountain Shoemakers' paring knife		300
Pendergast, John G	Oil, &c., preparing for paint		112
Penfield, Sylvester	Fire escape	22	357
Pendleton, Edmund	Tobacco, curing	1	33
Pendleton, Wm. F	Harness, bridles, &c	16	296
Pendrell, Jo	Furnaces, &c	5	128 275
Penman, John	Saw mill, circular	14	86
Pennell & Maxon	Picker, cotton	12	246
Pennell, Wm. W	Wheels, car, iron		213
Penniman, E. P	Stove, design		137
Penniman, John	Boilers, steam, &c	6	152
Penniman, John R	Sofa and bedsteads	17	313
Pennington, Samuel	Toothache specific	,4	118
Pennock, Moses	Wind wheel	11	236 21
Pennock, Moses (in classificat'n Rennock)	Rake, hay, revolving Boots and shoes, manufacturing	16	294
Pennock, Moses	Thrashing machine	i	33
Pennock, Moses and Samuel	Thrashing machine	î	23
Pennock, M. and S	Rake, hay, &c	1	21
Pennock & Sellers	Hose	11	223
Pennock & Sellers	Mail bags	16	298
Pennoyer, Samuel	Gin, cotton	6	75 160
Penny & Crosby	Spinning machine		91
Penny, John	Sugar, manufacturing		117
Penrose, N. R., and S. F. Palmer	Raising canal boats		177
Pepper, Hart	Staves, saw	14	281

Patentees.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Pepper, Hart	Staves, sawing	14	261
Pepple, Edmund	Bee hives	1	1
Percival, David	Railroad, gate	9	196
Percival, Jos	Planing boards	14	271
Percival, Orville	Augur, &c	14	265
Perin, Moses	Chimneys, &c	5	125
Perkins, Angier March	Heating buildings, &c	5	130
Perkins, Angier M	Heat, transmitting, &c	5	130
Perkins, Angier M., assignee of Jacob			
Perkins	Boilers, steam	6	15I
Perkins, Calvin	Fork, four-tined	1	12
Perkins, Edward L	Paper, making card	3	88
Perkins, Elisha	Starch, elastic, &c	4	117
Perkins, Elisha	Blister plaster	4	196
Perkins, Elisha	Points, metallic	20	349
Perkins, Elisha	Starch from wheat	4	117
Perkins and Gilpin	Paper, water marks	4	86
Perkins, Jacob	Nails, manufacturing	2	53
Perkins, Jacob	Propelling paddle wheels	7	174
Perkins, Jacob	Pumps	11	224
Perkins, Jacob	Spoons, manufacturing	2	60
Perkins, Jacob	Pumps	11	224
Perkins, Jacob	Water wheel, mill	11	233
Perkins, Jacob	Gin, cotton	3	75
Perkins, Jacob	Morocco, polishing, &c	16	298
Perkins, Jacob	Screw, manufacturing shanks of	2	58
Perkins, Jacob	Press, lever, &c	12	244
Perkins, Jacob	Engine, fire	11	221
Perkins, Jacob	Printing press, copperplate, &c	18	327
Perkins, Jacob	Nails, cutting	2	51
Perkins, Jacob	Nails, cutting	2	52
Perkins, Jacob	Nails, &c., cutting	2	25
Perkins, Jac	Counterfeit notes, detecting	18	322
Perkins, Jac	Counterfeit, mode of preventing	18	322
Perkins, James	Locks	2	49
Perkins, Justus	Mineral water apparatus	4	111
Perkins and Murray	Dies, improvement on Perkins'	18	322
Perkins, Oliver	Press, wedge	12	245
Perkins, Thomas	Nails, manufacturing	2	59
Perkins, T., and William McMahon	Wheels, cast iron, for locomotives	10	213
Perkins, William	Crackers, cutting		311
Perkins, William	Dovetails, cutting square joint		267
Perrins, John	Jacquard frames, improvement in	3	79
Perry, Andrew-see Bouton.	,		
Perry, Enoch W	Lampwick, tubes for	5	134
Perry—see Lindley.		ł	
Perry, Luke N	Drums, soldering, &c	2	49
Perry, Luke N			251
Perry, Nathaniel			349
Perry, Nathaniel		1 -	78
Perry, P. F			140
Perry, Sanford S			296
Perry, Sanford S			290
Perry, Stuart	Gas or vapor engine, inflammable		154
Perry, Stuart	Gas engines		154
Peters and Dean	Pump, rotary		227
Peters, Jacob.			67
Peters, John		ĭ	30
Peters, Joseph P	Pills, &c., counting		358
Peters, Warren L	Mortising and tenoning machine		271
Peters, Wm. T., executor of I. Town	Brick, moulding		286
=, it iii. I i, oxecutor or ii a dwill.	Carles and Section 1		
Petershurg Manufacturing Company			
Petersburg Manufacturing Company Peterson, George F Peterson, Lewis and Peter	Cordage, small, &c		70 398

Patentees.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Peterson, R. E.—see Waring, G. E.			
Petitval, John B	Boilers, steam furnaces of, &c	6	159
Petival, John B	Mallet, screwing, &c	7	17
Pethick, John	Piano forte	18	325
Petre, Michael	Fur, cutting	3	74
Petree, David	Stoves, Franklin, burning coal	5	145
Pettee, Otis	Spinning, fliers, &c	.3	90
Pettee, Seneca	Motion changing	13 10	258
Pettee, Simon	Straw bonnets, pressing	3	210 94
Pettee, Simeon	Loom, beam for	3	80
Pettes, Simon	Drilling rocks, &c	9	194
Pettes, Simon, (in classification Peters)	Stoves, cooking	5	141
Pettibone, Chapman, and Nichols	Steel, welding to iron	2	61
Pettibone, Daniel	Combs, cutting machine	21	350
Pettibone, Daniel	Combs, manufacturing	21	350
Pettibone, Daniel	Stoves, rarifying air, &c	5	146
Pettibone, Daniel	Plane irons, &c	.2	55
Pettibone, Daniel	Auger, twisted screw, &c	14	265
Pettibone, Daniel	Steel, welding to iron	2	61
Pettibone, Daniel	Warming rooms by, &c Lamps, argand, &c	5 5	147 139
Pettibone, Daniel	Steel, cast, welding to iron	2	61
Pettibone, Daniel	Shot and ball, casting of lead	19	336
Pettibone, Ozias	Cider mill, &c., horse power	13	250
Pettibone, Nathaniel	Dough, breaking	17	312
Pettinos, Peter	Piano, chromamometro, &c	18	395
Pettis, Phineas	Smut machine	1	23
Pettis, Phineas	Plough	1	17
Pettis, Simon	Locks	2	49
Peyton, John	Winnowing machine	1	34
Pfanner, Frederick	Dye stuffs, from spent madder	4	106
Pharo, Timothy	Oil, castor	4	112
Phenix Manufacturing Company, (ass'ees	,	•	114
of Benjamin Slingerland	Loom, weaving	3	83
Phelps, Augustus	Bit stocks	14	266
Phelps, Daniel	Steam, generating	6	162
Phelps, David	Press, cheese	12	249
Phelps, David	Printing press	18	326
Phelps, David N.—see Eby.	Ch	1	_
Phelos Himm G	Churn	1	- 6
Phelps, Hiram GPhelps, James	Rags, cleaning machine for	3	149
Phelps, John	Loom	3	87 79
Phelps, John F	Pails and buckets, &c., affixing the		
• ,	ears of	14	271
Phelps and Moorehouse	Plough	ï	16
Phelps, Noble	Pumps	11	225
Phelps, Oliver	Earth, hauling, &c	9	194
Phelps, Oliver	Propelling boats, &c	7	173
Phelps, Russel	Spinning, spindle, &c	3	93
Phelps, Samuel	Saw mill carriage	14	275
Phelps, Samuel W	Cooking stove, &c	5	143
Phelps, Samuel W	Cooking stove, &c	2	144
Philbrick, John	Cotton, drying, &c	1	63 10
Philip, John G.	Churn	i	7
Philip, John G	Washing machine	17	315
Philips, David	Gin, cotton, railroad	3	75
Philips, David	Mill, wing-gudgeon for	13	258
Philips, David	Saw mills	14	274
Philips, David, and Asa Jackson	Winnowing machine, fanning mill,	_ [
	grain	1 [35

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Philleo, Luther	Piano fortes	18	305
Phillips, Alonzo D	Matches, friction	4	111
Phillips, Benjamin		7	173
Phillips, Benjamin	Propelling paddle wheels, &c	7	174
Phillips, Benjamin	Propelling vessels, cylinder for	7	175
Phillips, Benjamin	Steamboat for shallow water	7	177
Phillips, Benjamin		6	162
Phillips, Benjamin	Boats, canal	7	168
Phillips, Benjamin	. Boilers, steam, measuring the height	1	
., .,	of water in	6	152
Phillips, Charles, jr	. Nails, manufacturing	2	53
Phillips, David	Brick, moulding, &c	15	286
Phillips, David	. Press, cotton	12	242
Phillips, David		13	257
Phillips, David	Gin, cotton	3	75
Phillips and Drummond	. Clay, mixing, &c	15	289
Phillips, Gab. N.	Cooking stove, &c	5	142
Phillips, Gab. N		5	123
Phillips, Henry F	Axles and hubs for carriage wheels	10	205
Phillips, John	Filtering water	11	222
Phillips and Maher	Axle	10	205
Phillips, Palmer		14	282
Phillips, Peregrine		4	110
Phillips, Philetus	Stoves	5	136
Phillips & Phillips—see Livingston & Co.			01/
Phillips, Rosel	Washing machine	17	314
Phillips and Smallman	Steering vessels	7	178 1 32
Phillips, Thomas	Lamps, economical, &c	5 1	22
Phillips, WilliamPhillips, William C		18	323
	Music notes	2	44
Phillips, William H Phinney, Zina.	Balance, steel yards, &c	12	240
Phinney, Zina	Washing machine	17	318
Phinney, Zina	Fuel, saving	5	128
Phinney, Zina	Salt water, boiling	4	116
Phinney, Zina	Butter, from lard	i	4
Phinney, Zina. Phipps, William K.	Corn sheller, &c	ī	9
Phipps, William K	Cloth, napping & making water-proof	3	69
Phips and Holliday	Grist mill	13	253
Phleger, Leonard	Spark arresters	6	154
Phleger, Leonard	Spark arresters	6	155
Phleger, Leonard	Propeller	7	172
Phleger, Leonard, (ass'nee of William H.	1	_	
Hubbell)	Spark arresters	6	155
Phleger, Leonard, (ass'nee of William H.			177
Hubbell)	Spark arresters	6	155
Phleger, Leonard, (ass'nee of William H	Sun de aumantana		122
Hubbell) Phleger, Leonard, (ass'nee of William H.	Spark arresters	6	155
Hubbell)	Spark arresters	6	155
Phœbus, William	Wind wheel	11	395
Phœbus, William		5	130
Phœbus, William	Galvanism, for salivation	4	198
Phœbus, William	Constructing ships, &c	7	169
Phyle, William F	Curtains, window and bed	17	311
Phyfe, William F	Mattresses, hair	17	313
Pickard, Daniel L	Boilers for heating water, &c	5	123
Pickering and Lightner	Car, railroad, &c.	10	206
Pickingbottom, William	Flax and hemp, preparing, &c	3	73
Picornell, J. G. M	Gas, antiseptic.	4	198
P16, William	Locks	2	49
Pie. William	Locks	2	49
Pie, William	Locks	2	.50
are an an all Marale	Shell and shot, elongated, &c	19 /	336

Patentang.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Pierce, Amaria	Gas, apparatus for generating	4	106
Pierce, Caleb	Screen, fire	5	135
Pierce, David	Sawing trees	14	277
Pierce, Dexter	Awls, attaching to hafts	2	89
Pierce, Dexter	Cutting scythe snath	1	u
Pierce, Galen H	Hammer for dressing stone	15	269
Pierce, Galen H	Hammer, stone	2	45
Pierce and Hathaway	Trip hammer	.2	62
Pierce, Henry	Harness, bridles, &c	16	297
Pierce, Hubbard L	Boots, crimping, cramp for	16	293
Pierce, Joel	Churn	1	14
Pierce, John J	Stoves, open	5	140
Pierce, J., J. Whitley, and A. S. Whitley	Saw mill, dogs	14	278 100
Pierce, Moses	Bleeching apparatus	11	202
Pierce, Nathan	Engine, fire		138
Pierce, Samuel	Roasting meat	5 5	.145
Pierce, Samuel	Stove, cooking	5	137
Pierce, Samuel	Stoves	5	127
Pierce, Samuel	Flues, &c., of kitchen ranges Water wheel, inclined	11	23
Pierce, Thomas	Washing machine	17	314
Pierce, Thomas	Excavating scraper, &c	1 9	194
Pierce, Thomas	Smut machine	ĭ	25
Pierce, Thomas	Smut machine	î	2
Pierce, Thomas.	Distilleries, boilers for	4	107
Pierce, Thomas	Churn	i	
Pierpont, Daniel	Churn	i	
Pierpont, John	Fireplace, Doric	4	107
Pierson, Azahel	Propelling paddles, &c	7	174
Pierson, Daniel	Telegraph, domestic	9	200
Pierson, Daniel	Printing press	18	327
Pierson, Isaac	Rolling mill, &c	2	56
Pierson, Jacob	Press, screw, &c	12	244
Pierson, Jeremiah H	Iron, hoop, &c	2	47
Pierson, J. H	Screws, cutting, &c	2	56
Pierson, J. H	Screws, cutting, &c	2	58
Pierson, Michael	Steering ships, &c	7	178
Pierson & Simmons	Loom	3	86
Piggot, Robert	Geography and astronomy, apparatus	_	
	for teaching	8	186
Pignatelle, John B	Paper making	3	83
Pike, Barnabas	Grates	5	129
Pike, Charles F	Steam engine, packing, &c	6	160
Pike, Eb. B	Thrashing machine,	1	28
Pike, James, and Willard Fisk	Pump	11	225
Pike, Joshua G	Churn	2	7
Pike, Richard	Hats, coloring, &c	3	77
Pike, Samuel	Barrels, vents for	14	266
Pike, Samuel	Combs, manufacturing, &c	21	350
Pilbrow—see Collins.	Dailman atmanhania	10	000
Pilling Tames	Railway, atmospheric	10	209 239
Pilling, James	Water wheel, horizontal, &c	11	
Pillsbury, Paul	Corn sheller	13	249
Pine, Edward	Pener cutting machine	3	
Pindle & Curtis	Comba mibbing down &c	21	84 351
Pinistry, Salvadore	Schagliola, shining	4	116
Pinkers & Williams	Railroad, forest.	9	198
Pinkney, Israel	Boots, cylindrical cleaner	16	293
Pinney & Olmstead.	Winnowing machine &c	i	35
Pinney & Olmstead	Sawing wood	14	277
Piper, Daniel A	Edging metal plates, &c	2	49
Piper, Enoch		13	256
	Steam, engine, condenser for	6	156

			_
Patentues.	INVENTIONS OR DISCOVERENCE.	CLASS.	PAGE.
Pitcher. L. B.—see Stevens, R. S.			
Pitkin & Kimble	Hats, planking	3	78
Pitkin, Levi	Pumps, beer, &c	11	225
Pitkin, Roswell	Hats, without bowing	3	78
Pitkins, Edward	Fencing, repairing	22	357
Pittman, John	Cordage	3	70
Pittman, John	Cordage	3	71
Pittman, John	CordageSpeculum ani	20	343
Pittenger, William	Cutting sausage meat	17	313
Pitts, Harvey W	Plough	i	20
Pitts, Harvey W	Grist mill cylinder	13	254
Pitts, Hiram A	Beehives	1	3
Pitts, Hiram A	Corn fodder, cutting and crushing	1	8
Pitts, Houghton, and Rice	Combs, machine for making, &c	21	350
Pitts, James	Shearing stattinets, &c	3	88
Pitts, J. A	Ovens, heating rooms	5.	134
Pitts, J. A. and H. A	Horse power, endless chain, &c	13	256
Pitts, J. A. and H. A.	Pumps, endless chain	11	226
Pitts, J. A. and H. A	Thrashing and winnowing	1	107
Place, Alonson	Dock, dry	9	19 3 18
Plank, Jacob	Plough	5	125
Plant, John	Chimney, cure for smokey	7	168
Plantou, Anthony	Boats, canal, propelled by steam	7	168
Plantou, Anthony	Boats, canal, and rivers	7	172
Plantou, Anthony	Teeth, metallic	20	343
Plantou, Gustavus, administrator of Alex-	2 county information		
ander Plantou	Car, railroad	10	906
Plantou, Julia	Stoves, foot	5	145
Plantz-see Babbitt.	,	1	
Platt, Alonzo	Lamps, hanging	5	138
Platt, Charles and Daniel	Files, cutting	2	42
Platt, Benjamin	Boiler	5	12 3 194
Platt, Joseph	Earth, raising, &c	9	252
Platt, Josiah	Mills for grinding	13 13	254
Platt, Josiah	Grist millGrist mill	13	254
Pleasants, Bazil C	Mail carriages, &c	10	209
Pleasants, John S	Cutting wheat.	ĭ	11
Plimpton, Otis	Straw, &c., bonnets, pressing	3	94
Plumb, Abraham	Boards, &c., seasoning, &c	14	265
Plumbe, John, jr	Galvanic batteries	8	185
Plumbe, John, jr., assignee of Daniel Da-	_	1	***
vis, jr	Daguerreotype pictures, coloring	18	322
Plummer & Clarke	Fire arms.	19	334 336
Plummer & Clarke	Rifles, manufacturing	19	13
Poague, J. B. and W. F.	Hulling clover seed	1	43
Poe, George	Furnace, blast	2	257
Poiteaux, Michael B. Poiteaux, Michael B.	Mill machinery	13	134
Poland & Blossom	Ovens, heating rooms	15	968
Pollard, Samuel.	Granite, cutting, &c	5	134
Pollard, Samuel.	Ovens, construction, &c	5	134
Pollard, William	Spinning.	3	89
Pollock, Aaron.	Balance, scale beams	12	939
Pollock, Allen	Fire place, &c	5	127
Pollock, Allen	Grates, &c., register, &c., for	5	129
Pollock, Allen	Stoves, heating apartments	5	145
Pollock, Allen	Stoves, heating apartments	5	145
Pollock, Allen	Heating rooms	5	130
Pollock, Henry.	Chimneys, preventing smoking	5	195 198
Pollock, John	Railroad, self-adjusting, &c., car	9	221
Pollock & Perking	Engine, fire	11	AAA

PATRITESS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Pomeroy, E. G	Boots, crimping	16	293
Pomeroy, E. G	Boots, &c., crimping	16	294
Pomeroy, Elisha M	Buttons, paper	21	349
Pomeroy, E. M	Razor case and sharpener	21	353
Pomeroy, E. M	Razor strap	21	353
Pomeroy, E. M	Razor straps, paste for	4	114
Pomeroy & Hedge	Pen, spring ruler	18	324
Pomeroy, Ralph	Steam engine	6	157
Pomeroy, Samuel W	Cotton plant, management of	1 18	10 324
Pond, Alson	Musical instrument, &c	3	89
Pond, Moses	Ranges, cooking	5	135
Pond, Moses	Stoves, hot air	5	145
Pond, Moses	Ranges, cooking	5	135
Pond, Moses	Range, cooking	5	135
Pond, William	Straw, wove, plait	3	94
Pool & Copeland	Spinning machine	3	90
Pool, Daniel	Nails, manufacturing	2	53
Pool, John, jr	Protractor and tablet, &c	.8	186
Poole, Daniel	Crackers, &c., cutting	17	310
Poole Henry S	Crackers, cutting and rolling	17 21	311 349
Poole, Henry S	Buttons, attaching to cloth Boilers, steam engine	Ĝ	152
Poole, John	Steam, syphonic machine	6	162
Poole, William C	Compass, surveying	8	184
Pooley, Charles	Carding engine	3	68
Pope, John D	Checks, preventing forgeries	18	322
Pope, John W	Shot, manufacturing	19	337
Pope, Joseph	Thrashing machine	1	28
Pope, Joseph	Thrashing machine	1 1	29
Pope, Jos	Wind wheel	11	235
Pope, Josiah	Cooler, flour		251
Pope, Lemuel T	Punching, &c., iron		56 311
Pope, Samuel	Steel, carbonated from, &c	2	61
Pope, Thomas	Bridges	9	191
Porter, Aaron	Grist mill	13	253
Porter, Aaron	Loom, stocking	3	82
Porter, Alexander	Thrashing, &c., grain	1	27
Porter, Allen	Combs, metallic	21	350
Porter, A., J. Mead, and J. Stedwell	Knitting stockings	3	79
Porter, Benjamin	Brick press	15	286
Porter—see Chickering.	(Thurshing marking	١,	91
Porter, David	Thrashing machine	7	31 169
Porter, David	Boats, worked by quadrupeds Straw cutting, &c	li	26
Porter, George	Bedstead fastenings	17	308
Porter, Henry	Composition, supplying lamps	4	103
Porter, James B	Fire arms	19	334
Porter, John	Stoves, cooking	5	142
Porter, John C	Brick moulding	15	286
Porter, Nathan	Churn	1	5
Porter, Noah	Grist mill, &c., combined	13	254
Porter, Parry W	Press, cotton	12	243
Porter, Rufus			171 183
Porter Rufus			183
Porter, Rufus			184
Porter, Rufus			168
Porter, Rufus			1 7
Porter, Rufus	Corn shelling	_	9
Porter, Rufus	Dock, floating, dry		194
Porter, Rufus		12	242
Porter, Rufus	Press, cheese, solf-adjusting	12	242

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
Porter, Rufus	Horse power	13	25
Porter & Sauger	. Hatters' kettles, &c	3	7
Porter, William H-see Osborne.			
Post, Abel	. Harness, breast-plate for horses	16	29
Post, Calvin	. Washing machine, rotary	17	310
Post, Calvin	Iron, bending, &c., for boilers	.2	4
Post & Collier	Feathers, renovator	17	31
Post, Garret Post, Garret	Bedsteads, revolving rail	17 2	30: 4
Post, James R	Window catch, &c	2	
Post, James A	Bobbin machine	3	
Post, John W	Boring rocks, &c	ğ i	19
Post, John W	Dough, breaking, &c	17	312
Post, John W	Plough	1	21
Post, J. W. and C.	Boring rocks	9	191
Post, J. W. and C.	Grist mill, iron	13	354
Post, Lewis	Fractures, apparatus for	20	349
Post, Nathan	Collars, horse, constructing	16	294
Post, Nathan	Harness, collars, &c	16	296
Post, Nathan	Harness, horse hames	16	297
Post, Pardon Post and Ryan	Bedstead fastenings	17	308 32
Postley, Charles	Stoves	5	136
Postley, Charles	Stoves, eleven plate	5	144
Postley, Charles,	Stove, cooking	5	141
Poteet, Allran	Truss, for prolapsus uteri	20	344
Potes, Henly	Gate, water, for penstocks	11	232
Pott and Pomroy	. Steam engine, rotary	6	160
Potter, and others—see Kerr.	l	_	
Potter, Alden	Boilers, steam engine	6	152
Potter, Bennet and A. F.	Luthe, turning boats' oars	14	269
Potter, Bradford A.	Tanning	16	301
Potter, Chandler E.	Cooking stove, &c	3 5	79
Potter, Edward Potter, Elbridge G	Mill spindle, &c	13	143 257
Potter, George W	Pipes, leaden	2	55
Potter, Hosea E	Boiling potatoes	5	123
Potter, Joseph	. Thrashing, &c., clover seed	i	28
Potter, Thomas, sen	. Boats, engine for unloading, &c	7	168
Potter, Welcome A.	Spinning cotton	3	89
Potter, Welcome A	Spinning cotton	3	89
Potter, Welcome A	Loom, regulating, &c.	3	82
Potter, William L	Stove, cooking	5	141
Potter, William L Potts, Charles,	Canal locks, wicket gates for	9	193
Potts, John H	Sausage machine	17	157 313
Potts, Joseph	Ploughshare rollers	i	21
Potts, J. C., (assignee of L. Gravline)	Stove, cooking, (design)	5	149
Poullalier, Cyprien.	Cement, bituminous	4	101
Powell, Isaac		11	230
Powell, John	Gold ores, &c., washing	2	45
Powell, Samuel W.	. Clover mill, for hulling, &c	1	8
Powell, Thomas	Steam engine, rotary	6	160
Powell, Thomas		13	251
Powell, Truman	Dysentery, &c	.4	107
Power, John H Power, Simeon	Charm	14	266 6
Power Thomas	Potesh	1	114
Power Thomas	Kiln lime	15	289
Power, Thomas	Kiln, lime	15	289
Power, Thomas,	Stoves	5	135
Power, Simeon Power, Thomas Power, Thomas Power, Thomas Power, Thomas Power, Thomas	Stoves.	5	136
Powers, Deportun, adm'x of wm. Powers	B OH GOUL	3	85
De Fronk	Ice preserver, &c	22	358

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Powers, Jona	Gridirons	5	130
	Steam engine, rotary	6	160
Powers, Thomas H 1	Kiln, lime	15	289
Powles, Daniel	Bedsteads, sacking bottoms	17	309
	Bedsteads	17	397
	Stirrups	2	61
	Oil, sod, for leather	4	112
	Stumps, extracting	.9	200
	Inking ivory, machine for	18 17	323 311
	Cutting apples, and paring Nursery bottles	20	342
	Sawing and planing, &c	14	277
	Saws, circular, stiffening	2	57
	Nipples, artificial	20	342
	Hats, &c	3	77
	Cooking stove	5	140
Pratt, Henry	Steam engine, propelled by steam or		
,	water	6	161
Pratt, Jacob I	Reeling and spinning and twisting silk	3	87
Pratt, Joel B	Washing machine and churn	17	318
Pratt, Joel, 3d, (in classification, 2d) I	Bedstead, sofa	17	309
Pratt, John	Composition for vessels' bottoms	4	103
	Napper, metallic	3	84
	Smut machine	Ī	24
	Axes	2	39
	Combs, manufacturing, &c	21	350
Pratt, Julius, and others, (assignees of	Combo alesso alesima As	21	981
	Combs plates, planing, &c	1	351
	Seeding, seed planters	21	23 350
	Combs, machine for grailing Combs, teeth cutting, ivory	21	351
	Combs, teeth sawing	21	351
	Combs, vice used in cutting	21	351
	Ivory, vice, slitting	22	358
	Churn, machine for working	`1	7
Pratt, Phineas	Combs, manufacturing	21	350
Pratt, Phineas	Combs, manufacturing	21	350
Pratt, S. G.—see Slater, J. K.			_
Pratt, Thomas	Churn	1	- 7
	Bridges, truss frames for	9	192
	Daguerreotype miniatures, &c	18	322
	Clapboards, sawing	14	267
	Wharves, &c., constructing	3	201 96
	Yarn, drawing, frame for regulating Atmospheric engines	6	151
	Cooking stove	5	139
Prentiss, George J	Cloth, washing in calico printing	3	69
	Medicine	4	111
Prentiss, Seaver	Grist mill, gate pressure	13	254
Presbrey, Simeon, jr	Spools and bobbins	3	94
Prescott, Enos	Washing machine	17	314
Prescott, Jedediah I	Press, cotton	12	243
Prescott, Jonathan	Fanning, &c	16	302
Prescott, Joseph D	Winnowing grain	1	34
Prescott, Joseph T.	Cultivating, &c	1	10
Prescott, Levi and Jedediah	Napping cloth	, 3 5	84
Prescott, William	Baker, reflecting tin	1	193 30
Presscott, William	Internate Machine	5	197
Pressey, C. G., and James D. Dudley	Comphallers	ĭ	136
Preston, Samuel	Boots, &c., pegged	16	295
Preston, Titus	Straw cutter	ĭ	26
Prestow, James	Mill stones	13	257
Preswick & Fisher	Oil of hazel, preparation of	4	119

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGI
Dustingen Power	. Harrow teeth	1	
Prettyman, Perry Prettyman, Perry	Bedsteads	17	9
	. Bedsteads	17	l ā
Prettyman, Perry		16	2
	1~	5	Ī
Price, Aaron O	Grinding grain, &c., mills for	13	9
Price, Francis		3	1 7
Price, Francis	Cornsheller	ĭ	l '
Price, Francis	1	14	2
rice, Isaac, jr	Hoops, sawing, laths, &c		9
Price, Jer	Carts, removing earth	10	19
Price, Jer.		9	is
Price, John		.5	
Price, John	Press, cotton	15	24
Price, John and James T. Phillips	Bridges, truss frames of	9	19
Price, John L.	Truss for hernia	20	33
Price, Nehemiah	Hulling clover seed	1	
rice, William	Knobs, glass, mode of, &c	2	4
rice, William		15	26
Price, William		15	25
Pride, Daniel	. Cider mill, &c	13	2
ride, Joseph	Press, cheese	12	24
rim, William	Saw mill, &c.	14	27
rince, James,	Propelling wheels for boats	7	17
rince, John	Inking distributer, self-moving	18	39
rince, John	Ink, applying to types	18	39
rince, John		18	39
rince, John		18	39
rince, John D		4	10
Prince, L. R.		17	31
rince, Samuel	Straw or chip hats, pressing	3	94
Prince, William A.		3	6
rine & Huestis.	. Winnowing machine, &c	ĭ	3
rior, Samuel	101.1	17	310
ritchard, E. B	1337 . 1 1 0 0	īi l	23
ritchard, George	10 111	16	30
roctor, Leonard.	Washing machine	17	317
rosser, Thomas		21	349
routhy, David, and John Mears		~i	20
routy & Mears.		î l	H
	Plough	î	î
routy & Mears.		2	Ē
routy, Russel	Press, cotton.	12	242
rovost, William F.		12	90
rovost, William F. and Charles J			50
rutzman, Augustus.	Locks, &c	2	49
rutzmann, August		.2	
ryor, Philip.	Cider mill, cast iron	13	250
ryor, Thomas W		13	249
udney, James		1	25
udney, John		21	351
uffer, Samuel		1	11
uffer, Timothy	Pressing machine	12	245
ugh, Eli		1	19
uglia, James		18	321
ullen, Thomas	Flax and hemp machine	3	73
ullman, Lewis.	. Buildings, &c., removing	12	949
ulsifer, John	. Combs, manufacturing, &c	21	350
ulsifer, J. S. and E	. Washing machine	17	316
ulsifer, J. S. and E.	Press, cheese	12	241
umphrey, William	. Churn	1	5
unchard, Joseph H.	Boots, crimping fronts	16	293
Purcell & McFarlin	Cement, hydraulic	4	101
Purcell, William.	Pumps	11	994
Purden, William.	. Hoisting machine	12	240
620 W. 274560 S (5) (9) (9) (7)	Sap bucket	$\vec{1}$	90

PATENTRES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Parall William	Water wheel, horizontal, &c	11	233
Purnell, William		17	177
Purse, Samuel N., and Martin Staley	Steamboat, preserving equilibrium	3	779
Pursell, John	Hemp, breaking	4	104
Putnam, Archelaus	Distilling	3	93
Putnam, Elias	Splitting leather, &c	16	301
Putnam, Elijah (in classificat'n Rutnam)		14	268
Putnam, Elisha	Pipes, conduit	ii	224
Putnam, Elisha	Pipes, conduit	11	224
Putnam, Elisha	Fireplace, stop	5	127
Putnam, James	Seeding, machine for planting seeds	1	23
Putnam, James R	Bars, &c., removing from harbors, &c.	9	191
Putnam, Joseph	Slabs, for fire brick, &c	5	135
Putnam, Joseph	Pipes, tubes, &c	11	224
Putnam, J. and C	Wheels, boxes, &c	10	212
Putney, David	Water wheel		231
Pye, Francis B	Locks, permutation lever		50
Pye, William	Andirons	2	39
Quackenboss, Augustus, assignee of S.			
W Gibbs.	Stove, cooking, design	5	142
Quail, John H	Car, railroad, turning corners	10	207
Quartermass, Robert A	Shingles, veneers, &c., cutting	14	280
Queen, Christian V	Forge, portable	2	43
Quigley, Moses A	Heating plates for hot pressing	5	130
Quigley, Thomas B	Ploughs	1	18
Quigley, S. B., and Harvey Hall	Plough, wheel	1	21
Quilliard, Claude S	Furnace, combination of, &c	2	43
Quilliard, Claude S	Furnace, &c., reverberatory	2	44
Quimby, Aaron B	Explosion of boilers, preventing	6	153
Quimby, Daniel	Stoves, ventilating	5	147
Quimby, Jonathan T	Truss, for vessels	` 7	178
Quimby, Joseph	Saw mills	14	273
Quimby, Joseph	Grist mill, regulated	13	254
Quimby, P. B. (in classification P. P	Locks	2	49
Quimby, Phineas P	Saw, chain, for wood, &c	14	273
Quin, Henry	Saw mill, self-setting	14	276 126
Quincy, Abraham	Fire cavern	5	145
Quincy, Abraham H	Stoves, foot	5 5	146
Quincy, Abraham H	Stoves, stone, fire-proof	18	329
Quincy, Abraham H	Inkstand, stone	5	128
Quincy, Abraham H	Boiler, stone, for chemical purposes.	4	100
Quincy, Abraham HQuinn, Henry	Saw mills	14	274
Quintard, Isaac	Cider and bark mill	13	250
Race, Washburn	Register for stove, self-acting	5	135
Rafinesque, C. S	Divitials, and preventing forgeries	18	322
Ralph, Joseph	Syringe, injecting	20	343
Ralston, Andrew	Thrashing machine, and winnowing grain	1	33
Ralston, Andrew	Cultivator		10
Ramage, Adam			327
Ramage, Adam	Printing press	18	328
Ramage, Adam			327
Ramsay, Alexander			200
Ramsay, Robert	Pressing and boring	12	245
Ramsey, James	Tubes, clay, for aqueducts	15	290 224
Ramsey, Robert	Pipes, conduit	11 5	125
Rand, John.	Point &c weesel for processing		113
	Paint, &c., vessel for preserving	•	1

Paten tras .	HVENTIONS OR DISCOVARISM.	CLASS.	PAGE.
Rand, John	Vessels of soft metal, method for		
Aca Villey	making	2	6
Rand, Luke S	Cutting fodder	13	256
Rand, Luke S	Corn sheller	13	
Randall, Benjamin.	Churn	î	
Randall, Charles	Harpoons	22	357
Randall, Samuel	Air draught subignis	5	123
Randall, Samuel	Writing, mode of teaching	18	399
Randall, Samuel.	Printing books	18	326 329
Randall, Samuel	Writing, mode of teaching	18 16	323 295
Randall, William B.	Boots and shoes, pegging, machine for Wheel hubs, carriage or wagon	10	214
Randolph, Edward.	Boats, canal	7	169
Randolph, David M.	Constructing ships	7	169
Randolph, D. M	Candles, moulding	4	101
Randolph, D. M	Cement, water proof	4	103
Randolph, John F.	Floating machine, supplying, &c	7	170
Rangeley, John	Railroad, construction of, &c., power		100
Ranger, Reuben	of, &c	9	198 34
Ranger, Reuben	Winnowing, separating, &c	lil	35
Rankin, Andrew		3	78
Rankin, David	Winnowing clover seed	i	34
Rankin, David	Hulling clover seed	1	13
Rankin, Robert	Brick moulding	15	286
Rannells, David V		15	290
Ransom, Amos		5 14	195 974
Ransom, Franklin, and Uzziah Wenman	Engine, fire, &c		221
Ransom, Joel L	Brick machine	15	985
Ransom, Loomis E	Brick moulding	15	286
Ransom, Samuel H	Ornamental stoves, design	5	146
Ransome, William H	Thrashing machine	1	29
Rapp, William A	Distilling turpentine, &c	4	107
Rappelyea & Barns		22	359 143
Rathbone, John F	Stove, box, design	5	138
Rathbone, John F	Stove, air tight, design	5	137
Rathbone, John F	Stove, box, design	5	139
Rathbone, John F	Stove, cooking, design	5	142
Rathbone, John F., assignee of J. E.		_	
Thomas	Stove, air tight, cooking, design	5	149
Rathbone & Co., assignees of Addison		_	190
Rathburn, Erastus	Saw mill, blocks for	5 14	136 275
Rathburn & Tinker	Saw straightening	14	275
Raub, Samuel, jr	Gauge, steam, for preventing	6	154
Raub, Samuel, jr	Valve, safety	6	163
Raub, Samuel, jr	Thrashing and cleaning clover seed	1	27
Hauson, Thomas H		4	113
Rauson, Thomas H	Pills, anti-bilious	• •	113
Raven, D. G.—see Olney, H.		1 1	
Ravenel, John	Hulling rice	1 1	14
Ravenel, John	Hulling rice, machine	ī	15
Rawlings, C. T. K	Loom temples	3	89
Rawlings, George	Corks, cutting	14	267
Ray, Fowler M			212
Ray, Fowler M	Bumper and draught springs, &c	10 12	906 949
Ray, Fowler M	Springs reibond care	10	211
Ray, Fowler M.—see Grout, J. H.	-i	1 - 1	

			-
PATENTERS.	INVENTIONS OR DISCOVENEES.	CLASS.	PAGE.
Ray, Fowler M	Wheels, car	10	913
Raymond, A. and G. V	Hats, stiffening	3	78
Raymond, Benjamin, jr	Propelling wheels for boots	7 12	176 24
Raymond, Eb	Picker, wool and cotton	3	86
Raymond, G. V	Hatters, furnace for, &c	3	78
Raymond, Henry	Hats, stiffening, lathe, &c	3	78
Raymond, Henry	Cloth, manufacturing	8	69
Raymond, H. V	Hatters' grates, &c	3	78
Raymond, Joseph S	Shingles, &c., cutting from steamed	14	278
Raymond, Lewis	Life boat	14	171
Raymond & Trumbull	Joint, carpenters'-sliding	14	268
Read, A. H	Chimneys, preventing smoking	5	125
Read, Cheney	Shingles, sawing	14	279
Read, Cheney	Shingles, manufacturing	14	279
Read, Clement O	Screw, wood	2	58
Read, Daniel	Spinning machine	3	90
Read, Daniel	Churn and washing machine	16	296
Read, Daniel H	Steam engine, retary	6	160
Read, Henry	Kiln, brick	15	289
Read, Isaac	Saw mills	14	274
Read, John	Wheel, trailing	13	261
Read, John M	Lantern, for steamboats	. 5	134
Read, John M	Cradle or crib	17	311
Read, Jonathan	Washing machine and olothes press.	17	317 222
Read, Jonathan	Reaping machine	16	296
Read, Josiah M., assignee of Abraham	Crimping leather, clamps for	10	200
Thayer, assignee of Joseph C. Cope-	·		
land	Boot crimps	16	293
Read, Nathan	Hulling coffee	1	14
Read, Nathan	Boilers, steam engine	6	151
Read, Nathan	Thrashing machine	1	29 29
Read, Nathan	Thrashing macking	i)	29
Read, Nathan	Distilling	4	104
Read, Nathan	Steam engine, retery	6	160
Read, Nathan	Brick press	15	286
Read, Nathan	Locks, spiral spring	. 2	50
Read, Nathan	Hommony mill	13	255 198
Read, Nathan	Nails susting and heading	9	52
Read, Nathan	Nails, cutting and heading Trip hammer	2	62
Read, R. C. and C. O.	Screw, wood	2	58
Read. William	Faucets, boring barrels for	11	222
Read, William	Cock, stop and filter	11	220
Read & Willoughby	Staves, dressing	14	280
Reading, Pierson	Hulling clover seed	1	13 13
Reading, Pierson	Hulling clover seed	9	195
Reading, Pierson	Corn sheller	i	8
Reading, Pierson.	Rake, horse	ī	22
Reading, Pierson.		1	28
Reading, Pierson	Corn sheller	1	9
Reading, Pierson	Flax, breaking	3	72
Reading, Pierson	Gin, cotton	3	75 29
Reading, Pierson	Thrashing machine	1	29
Reading, Pierson	Thrashing machine	i	14
Reaney, Thomas, and John Naglee, (Nag-		- 1	
lee, assignee of Reanev	Spark arresters	6	154
Radelsperger, Joseph	Pumps	11 1	225

Patrietries.	MAENLIONS OF DISCOASSES-	CLASS.	PAGE.
Redfield, Heman	Trip hammer	9	
Redheffer, Benjamin and William	Combs, manufacturing	21	350
Redheiffer, Charles	Power, gaining	13	959
Redheffer, James	Tin ware, seaming	2	2
Redheffer, William	Combs, splitting tortoise shell	21	35
Redifer, Jacob	Thrashing machine	1	30
Redmond, Arthur	Brewing	4	100
Reed, Aaron	Churn	1	1 4
Reed, Amos L	. Nail plates, apparatus for feeding	2	53
Reed, Asa D.—see Chandler, T.	l		١ 👡
Reed, Briggs R	Brick press	15	286
Reed, Briggs R	Nails, cutting and heading	2 2	55
Reed, Briggs R	Naila, cutting	15	51
Reed, Briggs R.		2	987 59
Reed, Charles B	Stone, horse	15	290
Reed, Daniel.	Cider mill and press	13	25
Reed, Edwin	Cooking stove	5	140
Reed, Ezekiel	Water wheel, horizontal	11	23
Reed, Ezra	Boats, canal	7	16
Reed, Freedus	. Washing machine and churn	17	316
Reed, Horatio G.	Rivets, machine for making	2	5
Reed, Jacob.	. Hulling rice, &c	î.	15
Reed, Jeremiah M.	. Horse power, endless floor	13	256
Reed, Jesse	. Plugs, and trunnel geared for, &c	7	177
Reed, Jesse	. Furnace, to generate steam, &c	5	196
Reed, Jesse	Rolling iron for nails	2	56
Reed, Jesse	. Pumps	11	225
Reed, Jesse,	Pumps	11	295
Reed, Jesse	. Pumps	11	225
Reed, Jesse	. Iron, slitting	2	47
Reed, Jesse	. Cotton, cleaning	3	74
Reed, Jesse	Cotton, cleaning, Sea Island	3	71
Reed, Jesse	Nails, cutting and heading	2	5
Reed, Jesse	Nails, cutting and heading	2	S
Reed, Jesse		2	54 54
Reed, Jesse		2	
Reed, Jesse.	Nails, cutting and heading	2	59 59
Reed, Jesse.	Nails, from heated rods	2 2	54
Reed, Jesse	Nails, cutting and heading	1	
Reed, Jesse.	. Corn shelling	2	61
Reed, Jesse.	Nails, manufacturing	2	5
Reed, Jesse	Dye woods, rasping	14	267
Reed, Jesse,	. Nails and tacks, &c	2	54
Reed, Jesse, and Josiah		11	295
Reid, Upton	. Shovels, swagging and setting	2	6
Reeder, Charles	. Steam engine, air pump used in low		
	pressure	6	157
Reeder, Jesse.	Brick, making	15	986
Reeder, Jesse	Grain cutters	1	15
Reeder, Jesse.	Milling	13	256
Reeder, Jesse	. Carriage bodies	10	207
Reekers, John J.	Friction, reducing	13	25
Reekers, John J.	. Car, railroad	10	200
Reekers, John J.		10	215
Rees, Francis.	. Axletrees, reduced friction, &c	10	200
Reese, Thomas	. Winnowing grain	1 2	3
Reeve, Joseph		223	35
Reeve and Ketcham	. Churn, inclined wheel, &c	1	
Reeve, Mark	. Nails, manufacturing	2	51
	N7 - 1		
Reeve, Mark	Nails, manufacturing	2 11	53 937

_	

PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
Reeve, Mark and Richard	Hinges, elliptical	2	4
Reeve, Mark and Richard	Nails, hot-heading	2	5
Reeve, Mark and Richard	Nails, manufacturing	2	5
Reeve, Mark and Richard	Nails, manufacturing	2	5
Reeve, Mark and Richard		2	5
Reeves, Benjamin	Steam engine	6	15
Register, Thomas		1	8
cichard, John	Paper, mark of opacity in	3 1	â
eichenback, Frederick C	Piano fortes, horizontal	18	32
keid, Elijah H	Dentrifice, vegetable	4	10
kaid, Elisha		13	25
Leid, Henry	Truss, spring	20	34
leid, James		6	15
eif, Christian	Thrashing machine	1	3
teihm, Josiah	Planing machine	14	27
Reiley, Thomas W		7	17
keilly, Boyd		20	34
keilly, Boyd keilly and Flannagan		20	34 15
Reilly, James		5 16	30
Reinhardt—see Carter.	Staving roadici	10	- 5
leinhardt, Charles C	Spurs, improvement in	2	
Leip, Henry		5	1
Leisinger, Henry		17	30
Lemington, Eliphalet	Shearing cloth	3	8
lemington, Jesse		7	1
emington, John R		10	2
lemington, John R		9	19
lemington, John R		13	2
Lemington, John R		17	3
Lemington, John R	Stump extractor	1 2	
Lemington, John R	Press, cotton	12	2
emington, John R		1~	_
, , , , , , , , , , , , , , , , , , , ,	of, &c	9	1
Remington, John R		17	3
Lemington, John R	Wind wheels	11	2
Remington, John R	Engine, pneumatic	11	2
Remington, Nathaniel		3) '
Reminton, A. and N		1	
Renfrew, John		11	2
lenner, Daniel, (assignee of Luther a		16	3
Smith lennie, James	Dying and printing, &c	16	i
tennie, James	Ink, coloring matter, &c	18	3
enoir, Alexander	Propelling boats by man power		i
lentgen, Clement		1 -	-
Lentgin, Clement	Bolts and bars, forging	2	
enwick, James	Navigation, steam, internal	7	1
off, Almon	Lock, door	2] _
esor, Wade, and Resor	Cooking stove	5	1
esor, William	Stove, cooking, (design)	5	1
seor, W. and R. P			3
esor, W. and R. P	Stove, lyre, ornament for, (design)	5	} '
zeor, Wm. and R. P., (assignees	Stores cooking	5	J
Thomas Bent)			9
evere, John		4	ì
lew, Ephraim			1 2
lewey. John.	Bolt machine, &c	2	١ "
Jeynolds, Allen B	Saw mill, circular railway, &c	14	2
Reynolds, Ass. R	Axles and boxes for carriage wheels.	10	1 2
Reynolds, Charles	Carriage, steam	. 6	1

Index.

Secretary Company of the Company of			_
PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
Reynolds, Charles	Steam engine	6	15
Reynolds, Charles G	Salt, manufacturing	4	110
Reynolds, Edward	Wheels, felloes, bending	10	21
Reynolds, George	Feathers, dressing	17	319
Reynolds, George	Feathers, dressing and cleaning	17	312
Reynolds, George N	Axle, moveable	10	200
Reynolds, George N	Springs, carriage	10	2N
Reynolds, Gideon	Thrashing and breaking flax, &c	1	27
Reynolds, Gideon	Thrashing machine	1	25
Reynolds, Griffin, jr	Mowing, hemp cradles	1	15
Reynolds, H. D	Smut machine	13	245
Reynolds, John	Carriage bodies, &c., hanging	10	208
Reynolds, Jonathan	Wheels, spokes, cutting tenons on	10	215
Reynolds, Jonathan	Wind wheel or water	11	236
Reynolds, Jonathan	Grist mill, horizontal	13	254
Reynolds, Oliver	Beehive	1	4
Reynolds, R., jr	Gin, cotton, in the roller	3	75
Reynolds, Samuel Godfrey	Spike machines	2	60
Reynolds, Samuel G	Nails and rivets	2	53
Reynolds, Samuel G	Pins, machine for heading & pointing.	3	55
Reynolds, Samuel G	Mill, metallic file, &c	13	256
Reynolds, Samuel G	Nails, wrought	.2	54
Reynolds, Sanford	Water wheel, chain action, &c	11	232
Reynolds, Schyler	Spring seat for wagons	10	211
Reynolds, Sullivan	Wheels, boxes, cast, &c	10	212
Reynolds, Thomas	Mill stones, machinery, &c	13	258
Reynolds, William	Truss for prolapsus uteri	20	344
Reynolds, William B	Plane, double iron	14	271 270
Rhinehart, Charles	Mortising chisel	14	268
Rhodes, John		14	17
Rhodes, John and Adam	Cutting circular govetha	1	10
Rhodes, Ryland	Plough	1	17
Rhodes, Ryland	Plough	i	16
Rhodes, William	Dock, floating, dry	9	193
Rhodes, William	Pumps	ıı	224
Rhodes, William	Power, propelling mills, &c	13	260
Rice, Benjamin	Washing machine, &c	17	318
Rice, Charles	Cider mill	13	250
Rice, Clarke	Paper engines, washers for	3	85
Rice and Congdon	Horse power	13	255
Rice, Dennis	Harrow, sward cutting	ī	12
Rice, Ebenezer	Wells, sinking, &c	9	201
Rice, James J	Pumps, suction and force	11	227
Rice, John	Cooking stove and fireplace, &c	5	143
Rice, Laura, (administratrix of J. J. Rice	• • •		
and E. Rice)	Gravel pump, for excavating wells	9	196
Rice, Levi	Horse power	13	255
Rice, Levi	Spinning cotton, &c	3	89
Rice, Levi	Laths, machinery for manufacturing	14	263
Rice, Levi	Seeding potatoes, planting	1	22
Rice, Levi	Straw cutting machine, &c	1	96
Rice, Levi	Lime, spreading, &c	1	15
Rice, Lewis	Sack shoulderer	13	367
Rice, Phineas G. and Gabriel.	Hemp, hatchelling	3	75
Rice, Thomas	Spinning cotton seine twine	3	89
Rice, Wanton	Spindle, cast iron, for mills	13	300
Rice, Zalmon	Smut machine, cleaning and winnow-	1	
D. 1 7 1	ing grain	1	2
Rich, John, jr.	Flax and hemp machine	3	73
Kich, John, jr	Plough, hill side	3	99
Kich, Joseph	Flour, &c., manufacturing	13	es Il
Rich, Joseph C	Washing machine	17	711
Rich, Joseph C	Beehives	1 (3



PATERING COLUMN	SIVENTIONS OR DESCONSION.	CLASS.	PAGS.
Blich, Joseph C	Straw cutter	1	27
	Plough, hill side, double	1	*
Rich, Martin	Saw mill, dog gauge	14	295
Rich, Martin	Saw mill, dog lever	14.	275
	Saw mill dogs	14	275
201001)	Saw mill dogs	14	275
	Saw mill dogs	14	275 275
	Saw mill dogs	14	275
	Saw mill dogs	14	281
Zelon, zeonosii tratti	Wagon, or other wheeled, &c	10	212
	Cultivator, seeding	1	10
	Drawing knife	14	267
	Extension tables	17	312
	Bread, making	17	309
	Dough machine	17	312
	Gilding copper, brass, &c	18	322
	Cooking stove and Franklin	5	143
Richards, George H	Caoutchouc fluid, &c	4	101
Richards, George H	Carriages, travelling	10	209
	Tanning skins and hides	16	302
Richards, Geo. H., (assignee of Thomas	-		~~~
Chase	Tanning, process of	16	302
	Fireplace, sheet iron	5	197
	Pistons, improvement on	6	154 82
	Loom, sail cloth	3	198
	Railroads and cars	9	201
	Punching iron or steel	2	56
	Dye woods, cutting	14	267
	Smut wheat rubber	i	25
Telcharas, o state - transfer and a state of the state of	Spectacles, constructing	8	186
	Iron ore, smelting	2	47
	Lead, white	4	110
Richards, Joseph	Lead, white	4	109
Richards, Joseph	Hammer for cutting, &c	15	289
	Cooking stove, double furnace	5	143
Zeroman de,	Boilers, steam	6	151
2010110107	Boilers, steam	6	151
	Soles, cutting	16	300
	Tubs, pails, &c	16	295
\$4.0.00	Boots and shoes, manufacturing, &c	16	296
	Pricking leather	13	256
	Glass, flattening and annealing	15	288
	Buttons, glass, finishing	21	349
	Knobs, glass	2	48
	Thrashing machine	1	26
Richards, William T	Springs, elliptical, forming the sockets	ĺ	
,	_ of	10	211
	Leather, splitting	16	298
	Splitting leather		301
	Leather, splitting	16	298
Richardson, Benjamin	Gauge, for trip hammers	2	44
	Forge, blacksmith		106
Richardson, Edward	Distilling, still for		106
Richardson, Edward	Press, tobacco	12	244
Richardson & Fuller	Carriages, measuring distance	10	206
Richardson, George	Tin kitchen	5	147
	Saw mills	14	273
Richardson, Isaac	Kiln, lime, regulating the draught of	15	289
Richardson, Israel J.	Straw cutter	1	27
Richardson, Israel J	Horse power	13	951

Patricular.	SEVERITIONS OR DESCOTORISM	CLASS.	PAGE
ichardson, Issael B	Lock, percussion	110	•
ichardson, Israel J	Horse power	13	1
ichardson, Israel J	Straw cutter	1	١.
ichardson, Israel J	Water wheel, floating valves	11	1
Schardson, Israel J	Mortising machine	14	1
lichardson, I. J	Steam engine	6 5	1
lichardson, Ithiel S	Fire alarm, self-acting	9	1 1
Schardson, I. S	Door, springs for shutting	Ž	ł
sichardson, I. S	Steam engine	6	1
ichardson, Jacob	Spinning wool and cotton	8	1
tichardson, James	Cooking stove	5	1
tichardson, John	Evaporating furnace	4	1
tichardson, John	Evaporating furnace	.4]
ichardson, John, jr	Engine, fire	11	1
tichardson, Nathaniel	Bedstead for sick	17 5	1 5
tichardson, Oliver	Chimneys, constructing	14	١
ichardson, R. B	Bellows, japanned	îi	3
tichardson, Samuel	Smut machine, and hulling	î	٠
ichardson, Samuel S	Garments, fitting, ladies dresses	21	9
ichardson & Stout	Bark, grinding and packing	13	1
ichardson, William	Coal breaker	22	1
ichardson, William	Vinegar and cider from effalls, &c	4	1
ichardson, William	Distilling	4	1
tichardson, William F	Plough, Auburn	10	١.
Lichardson, William F	Powder, granulating	19 7	1
	Table, sea	17	
tichey, Thomas	Scrubbing machine	i	1
lichman, Christian and Charles	Lamps, construction of	5	1
tichman, John	Bedstead fastenings	17	1
lichmond & Caswell	Shovel and spades	2	`
tichmond & Caswell	Spades, socket	2	١
Richmond, David	Coffee mill, and pepper, &c	13	1 5
lichmond, James	Excavating plough	9	1 3
Richtmyre, B., and James H. Martin	Mortising, tenoning, and boring	14	3
licker, Joshua	Hulling rice cleaning	1	1
lickets, John T	Hulling rice, cleaning	6	1 :
licketts & Kinney	Flax and hemp machine	3	١ '
licketts & Kinney	Flax and hemp machine	3	1
licketts, Lovering	Piano fortes	18	١:
lickey, John C	Sleighs or sleds, mode of locking	10	1
lickey, Joseph	Churn	1	1
tiddell, George W	Truss for prolapsus uteri and hernia	20	1 :
tider, A. K., and William S	Steam engine, retary	6	
tider, Daniel	Oakum, picking	3	1
Rider, Elisha		1	١.
tider, Joseph	Boot patterns		! !
Rider, Nathaniel	Spinning spindle, cotton	1 -	1
Rider, Nathaniel(Nathan in classific'n)	Bridges	1 =	1 1
Rider, Nathaniel	. Coopering	14	1 9
Rider, Nathaniel	Carding machine	3	1
Rider, William H., assignee of J. Rider.	Plough, cultivator and planter com-	4	1
State State	bined, &c	1	1
Ridgeway, David	Brick making		1
Ridgeway, David	Stripping leather		
Ridgway, Benjamin S	Horse power.	13	1
Ridgway, James	Spoons, manufacturing	11	1 .
Manager - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Pipes, inserting branch pipes, &c	9	

minist.

		-	
PATRITUM.	INVENTIONS OR DISCOVERISM.	CLASS.	PAGE.
Ridgway, J., jr., admin'torof J. Ridgway			~
Didamen Thomas D	pressure	11	物
Ridgway, Thomas R	Railroad, cleaning the rails, &c	9	198
Ridgway, William, ir see Stanbury.	raminous, dicaring and ratio, each train	•	
Ridgway, William, jr.—see Stanbury. Ridings, John P	Thrashing machine, clover	1	80
Rigg, Elisha	Pumps	11	204
Riggs, Affred	Teeth, artificial, attaching	20	348
Riggs, John W	Stoves, cooking	5 2	141 59
Riker, Rufus	Saw mill, cross cutting	14	275
Riley, Edward C	Keys for musical instruments	18	330
Riley, James	Hose, suction	11	223
Riley, James	Pipes for fire engines	11	224
Riley, Patrick	Springs for railroad carriages	10	211
Riley, Salmon C	Stoves, cooking, utensils for	5 5	144 128
Rifey, William W	Ointments for piles	4 .	112
Rillieux—see Merrick.	Similar to proserve to the control of the control o	•	
Rillieux, Norbert	Sugar making, improvement in	4	117
Rinehart, Jesse	Mortar mixing and hoisting brick	15	290
Ring, Abner R	Bridges, swinging	9	192
Ring, A.—see Hartshorn, O. S.	Stoves, cooking, Franklin	5	143
Ring, Elihu	Springs and levers, &c	10	211
Ring, Elias	Water wheel, tide and current, spiral.	ii	235
Ring, Jarvis	Earth, &c., removing	9	195
Ring, Jarvis	Propelling boats	7	172
Ring, Zebedee	Dock, hydraulic	9	194
Ringgold & Moore, assetes of E. Hidden Ringgold, Samuel		19	335 299
Ripka, Joseph	Saddles, construction of	16 3	61
Ripley, Charles	Lead, carbonate of	4	109
Ripley, Ezra	Tea kettle	17	314
Ripley, Ezra	Stove, design	5	137
Ripley, Ezra	Stove, design	5	137
Ripley, Ezra—see Johnson & Cox. Ripley, Ezra	Mortising machine	14	279
Ripley, Ezra	Binder for newspapers	18	321
Ripley, Ezra	Metal, method of making patterns for		5.52
	casting hollow ware	2	51
Ripley, Ezra—see Johnson, E.			
Ripley, Ezra	Washstand	17	318
Ripley, Ezra	Stove pipes	5	146
Rising, David	Brick machine	15	286
Rising, David	Brick machine	15	285
Risley, Harlow	Spade and shovel handle	14	261
Risley, Samuel, administrator of Richard			000
S. Risley	Marble, smoothing and polishing, &c. Tide mills	15 11	203
Rittenhouse, John	Coffee mill.	13	225 250
Rittenhouse, Robert	Hulling clover seed and corn	i	18
Rittenhouse, Robert	Rolling metallic plates, &c	2	56
Ritter, Carl G		4	118
Ritter, Christian			273
Ritter, David		4	163 155
Ritterbandt, Louis Antoine	Boiler, steam, removing incrustation.	6	153
Rivafinoli, V. D., C. Harsleben, and W.		,	1
Davis	Gold ores. dec., washing	2	45
Rives, John C	Lotteries drawing	R	165
Rives, Thomas, ar	Glood, washing, &c	2	45
Roath, Henry	Stoves, construction of	5	138



PATENTERS.	SHARMAIONS OF DISCOASIVERS.	CLASS.	PAPE
Robb, James	Beehives	1	
Robb, James	Stoves	5	13
Robbins, Austin H	Cutting vegetables	17	31
Robbins, A. H. and L.	Seeding, seed, sowing	1	2
Robbins, Edward, jr., and William Ashby	Water wheel	11	22
Robbins, Henry H.	Braid, machinery for pressing, &c	3	
Robbins, Henry H.	Braid, machinery for trimming straw.	3	
Robbins, Hildreth	Hulling clover seed	1	1
Robbins, Hildreth	Hulling clover seed	17	30
Robbins, J. N	Belance weighing appearatus	12	24
Robbins, Nathaniel	Balance, weighing apparatus Fish, mode of carrying, in warm		
Robbins, Trushina	weather	22	351
Robbins, Thomas B. (in classf. Robinson)	Pipes, aqueduct	11	224
Robbins, Zenas C	Boiler, steam, heater of, &c	6	15
Robbins, Zenas C.	Boiler, steam, construction of	6	151
Robbins, Zenas C.	Brakes, carriage, self-acting	10	206
Robe, James	Bellows	11	219
Roberts, Asher W	Furnace for tailors	5	199 101
Roberts & Carson.	Cement for cisterns	1	101
Roberts, Hezekiah	Churn	5	127
Roberts, Jesse.	Fireplace, prevent smoking Washing machine and churn	17	318
Roberts, Jonathan, jr	Winnowing clover seed	i	34
Roberts, Owen .	Flax and hemp machine	3	73
Roberts, Richard	Brick making	15	. 296
Roberts, Richard	Spinning, self acting mule, &c	3	91
Roberts, Seth J.	Plough	1	18
Roberts, Stillman	Washing machine	17	316 323
Robertson, Archibald	Marble, preparing for painting	18	220
Robertson, James	Cocks, stop	11	136
Robertson, Robert	Stoves, conical	5	271
Robertson, Thomas A	Pegs, shoe, machine for making	17	313
Robertson, William H	Matresses	•	
Robeson, A	Cloth dressing, &c	3	69
Robeson, Joseph	Paper, vats, beating, &c	3	86
Robey, Joseph, jr	Roads, constructing, &c	9	199 161
Robie, Jacob C	Steam engine, rotary	6	14
Robinson, Clark H.	Stove, cooking	5	314
Robinson, Daniel	Washing machine	17	5
Robinson, Daniel	Churn	9	48
Robinson, Draper & Lord	Knobs, glass, &c	2	48
Robinson, Draper & Lord Robinson, Edward	Knobs, glass, &c	17	318
Robinson, Edward M.	Composition, protecting metallic, &c.	4	103
Robinson, Eli C.	Ovens, elevated, &c	5	134
Robidson, Eli C	Stoves, cooking	5	143 145
Robinson, Eli C.	Stoves and grates	5	94
Robinson, Elihu.	Spools, frame	3	73
Robinson, Elisha	Loom	3	48
Robinson, E. and G. W	Knobs, glass, metallic, &c	12	246
Robinson, Enoch	Windlass or drums for raising weights	2	48
Robinson, Enoch and William Hall	Knobs, door, attaching to their spindles	2	#8
Robinson, Enoch, and William Hall	Latch, door, &c	2	63
Robinson, Enoch, and William Hall Robinson, Fran. and Hanson	Tanning wool, removing, &c	16	305 118
Robinson, George	Sulphur, sublimating	4	110
Robinson, George W	Lock securing, &c	2	Q.
Robinson, George W.	Spinning wool and cotton by hand	3	199
Robinson, George W	Furnace making	5	jii
Robinson, George W	Buttons, moulds for casting metal	21	38 38 38 31
Robinson, George W.	Buttons, securing in a lathe	21 10	910
Robinson, George B.	Springs, carriage.,	to .	

" PATROPURA.	MARMAIGNS OF DISCOARDING.	Char.	PAGE.
Robinson, George W	Kettles, &c., setting for boilers	5	191
Robinson, George W	Stoves, foot	5	14
Robinson, George W	Nails and brads, brass, &c	29	5
Robinson, George W	Buttons, manufacturing	21	349
Robinson, George W., and Ezra B	Steering apparatus for vessels	7	177
Robinson, George W., and Ezra B Robinson, George W., and Ezra B	Spring-bolt door and other locks	2 2	61
Robinson, Henry	Window sash, spring fastener	4	106
Robinson, Isaac	Hides, softening	16	296
Baker	Press, cotton and hay, &c	12	243
Robinson, Jacob	Cutting sausage meat	17	311
Robinson, James	Grist mill	13	253
Robinson, James B	Horse wheel, inclined	13	257
Robinson, John	Tobacco, curing	1	33
Robinson, John	Knobs, glass, pressed, &c	.2	46 231
Robinson, J. D	Railroad, chairs of	11	198
Robinson, Moncure	Inclined planes, transporting, &c	9	197
Robinson, Nathan	Plough	ĭ	17
Robinson, Nathan P. (Nathaniel in class.)		3	75
Robinson, Peter	Steam engine boilers, &c., supplying		
,	air, &c	6	157
Robinson, Pliny	Streets, sweeping	9	200
Robinson, P	Lamps, lard	5	133
Robinson, Robert	Canals and mill-dams, waste-gate, &c.	9	193
Robinson, Robert	Washing machine	17	314
Robinson, Robert	Stamping and staining leather	16	301
Robinson & Shaw	Pumps	11	225
Robinson, Willard	Buttons, grinding steel dies for	21	349 211
Robinson, William	Springs, wooden	10	297
Robinson, William S	Pump, ventilating	16 11	227
Robotham, Richard	Ruling paper	18	326
Robotham, Richard	Composition for flooring houses	-4	109
Robotham, Richard	Oil, sperm, clarifying	4	, 119
Robotham, Richard	Candles	4	100
Rocher, Michel	Cabooses, to distil salt water	5	124
Rockafellow, John 8	Garments, measuring for	21	359
Rockwell, David S	Seeding, planting corn, &c	1	22
Rockwell, Edward	Vault lights, &c	2	6
Rodefer, Joseph	Bedsteads, fastening	17	300
Rodgers, George A	Hinges, cast	2	40
Rodgers, Henry	Pump, liquor	11	23(22(
Rodgers, Henry	Cocks, drawing liquors, &c	11	300
Rodgers, James	Sewing machine. &c	16 6	16
Rodgers, James. Rodgers, John F.	Steam for propelling boats Truck, railroad	10	215
Rodgers, Solomon A	Balance scale beams	12	23
Rodgers, Thomas	Steam engine, cut-off valve	-6	130
Roe, Henry A	Sheet iron, machine for bending	2	56
Roe, Kellogg & Gazley	Tannin, extracting	4	118
Roe, Livingston	Fractures, apparatus for	20	34
Roe, Stephen C	Stoves, conical	5	18
Roebling, John A	Bridge, suspension	9	196
Roebling, John A		6	1.56
	&C	2	5'
Roebling, John A		6	15
Rogers, Abijah	Composition, covering houses	4	109
Rogers, Andrew	Propelling chain paddle wheel, &c	7	174
Rogers, Benjamin	Loom temples	3	85
Rogers and Blanchard	Brads and tack machine	2	26
Rogers, Caleb B		9	

- Patriffic	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
Rogers, Calvin B	Combs, machine for dressing	22	-
logers, Calvin B	Saws, machine for filing	14	2
Rogers, Charles B., and Edward Arnold.			
assignees of Edwin M. Chaffee Rogers, Charles H., and S. H. Hancox	Caoutchouc, manufacturing balls Stoves, improvement in	5	1
logers, Daniel	Canals, lock gates, paddle for	9	i
Logers, Daniel		9	î
logers, Daniel	Canals, locks, gates	9	1
Rogers, Daniel		19	3
Rogers, David		12	2
Rogers, David B.	Dies for cutting and forming cultivator	1	
Rogers George	Stoves chimney rarifying	5	13
logers, George	Vegetable wash for the lungs	4	1
Rogers, George		16	2
togers, George A Rogers, H.—see Thompson.		2	
logers, Henry	Compound, explosive powder, &c	4	10
togers, Henry	Gun, revolving, four-barrel, &c	19	3
togers, Henry	Telegraph signal	9	2
logers, Isaiah logers, James H	Bridges, spiral brace cylinder	9	2
logers, John	Press, lever, compound	10	2
togers, John	Marine railway	9	1
logers, John F	Pump, forcing	11	• 2
ogers, John F	Pump, forcing and suction	11	2
logers, Levi	Sleigh, traverse	10	21 17
logers, Moses	Propelling boats by animal power Propelling boats by animal power	7 7	17
logers, Moses		9	19
togers, O. G. and M	Spinning machine, &c	3	9
ogers & Ous	Nails, cutting, and rolling iron	2	
logers & Pearson	Lock, door	17	34
logers, Peter	Loom	3	7
logers, Richard C	Loom, (improvement on Rogers's)	3	8
logers, Robert	Lanyards, chain	7	17
logers, Robert	Warming buildings, &c	5	И
togers, Samuel	Rolling mill for sheet iron	2 2	5
logers, Samuel	Nails, cutting and heading	î	3
logers, Samuel	Lathe, turning, rollers for, &c	14	9
logers, Samuel	Nails, heading	2	5
ogers, Samuel	Nails, headingBalance, (on Dearborn's improvem't)	2	5
logers, Solomon A		12	23
ogers, William A	Fabrics, water-proofingCultivator, cotton	3	i
oggen, J. J.—see Livingston, L. R.		-	
ohr, J. G., assignee of Baptiste Maag	Balance, weighing machine	12	94
ohrer, Jeremiah	Saw mill, sustaining logs in	14	27
tolfe, Benjamin toller, G.—see Miller, Samuel.	Brick press	15	28
olling, Jacob S	Thrashing machine	1	3
olph, Edward	Nails, horse shoe, &c	2	5
lolph, Social	Furnace, stoves, &c., constructing	5	19
lopald William A and H Miller		11	23 10
lonald, William A., and H. Miller	Composition for dressing leather Propelling boats, &c	7	17
onaldson, James.	Seasoning wood, kiln for	14	27
ionaldson & Neill	Marine railway, foundation of	9	19
loney, Benjamin T.	Stoves, cooking	5	14
loney, Benjamin T	Stoves, cooking.	5	14

Roose, William J. Roose, Benjamin. Roose, Benjamin. Roose, Benjamin. Mash tubs. Roose, Benjamin. Mash tubs. Roose, Benjamin. Roose	COVERNO, CLASS. PAGE	IMPRINTIONS OR DISCOV	PATANJARA.
Roose, William J. Composition, water proof, for leather 4 Roop Benjamin. Mash tubs. 7 Root. David. Stove, design. 5 Root. Elisha K. Axes. 2 Root. Elisha K. Axes. 2 Root. Elisha K. Axes. 2 Root. Elisha K. Axes. 2 Root. Elisha K. Axes. 3 Root. E. K.—see Collins, Manufacturing Company. Root, Eratus S. Root, F. H.—see Jewett, S. S. Root, F. P. S. Root, F. P. S. Root, Hiram Stoves, cooking, valve.of. 5 Root, James. Condenser for stills 4 Root. James. Condenser for stills 4 Root. Jolando. Hats, bodies, forming. 3 Roper, E. H., and W. M. Ball Padlocks. 2 Ropes, David N. K. K. S. Robers. 1 Ropes, George K. K. Hats, bodies, forming. 3 Ropes, George K. K. Hats, bodies, forming. 3 Ropes, Hugh M. Saddes, double side. 1 Rose, Hugh M. Saddes, double side. 1 Rose, Jacob S. Breathing tubes. 20 Rose, Samuel. Dook, floating, dry. 9 Rose, Samuel. Trinchy Water wheel 11 Roses, William Hoops, splitting. 14 Roses, William Hoops, splitting. 14 Roses, Hams. Levi. Churn. 12 Roses, James B. Stoves. 12 Ross, John G. (not B., as in classification) Ross, John G. (not B		Seres, curing	ood, Reuben.
Roosevelt, Nicholas J	of, for leather. 4 1	Composition, water proof,	pome, William J
Stove, design Stove, desig	4 1	Mash tubs	oon. Benjamin
Root, Elisha K. Root, E. K.—see Collins, Manufacturing Company. Root, Erastus S. Root, F. H.—see Jewett, S. S. Root, F. P.— Shoot, Hiram. Shoot, Lames. Root, Jam			cosevelt, Nicholas J
Axes, hatchets, &c. 2	-		oot, David
Root, F. H. — see Jewett, S. S. Root, F. H. — see Jewett, S. S. Root, F. H. — see Jewett, S. S. Root, James Stoves, cooking, valve.of. 5			oot, Elisha K
Rake, horse 1 1 1 1 1 1 1 1 1		Axes, hatchets, &c	oot, Elisha K
Rake, horse 1 1 1 1 1 1 1 1 1			
Coot, Hiram	1	Rake, horse	oot, Érastus S
Stoves S		Grain cleaner	
Stoves S			
Condenser for stills			oot James
Air backs, for chimneys. 5			oot James
Copt Cornand Copt			
April			
Access A			loner E. H. and Wm. Ball
Copes Corege Copes Cop			lones. David N.
Plough			
Lamps lard			
Saddles, double side. 16			
Rose, Jacob S. Breathing tubes. 20 Rose, Robert Trucks, gun, cutting. 19 Rose, Timothy Water wheel. 11 Rose, William Wood, splitting. 14 Rose, William Churn. 1 Rosenkrans, Levi. Trip hammer. 1 Rose, Charles. Rules, or measures for boards, leather, 8 Ross, Greenberry. Tailoring, art of. 21 Ross, James. Stoves. 5 Ross, James P. Straw cutter. 1 Ross, Joel H. Bath, vapor. 20 Ross, John G. (not B., as in classification) Ross, Joseph. 1 Ross, Joseph. Thrashing machine, preventing dust. 1 Ross, Joseph. Thrashing machine, preventing dust. 1 Ross, Samuel. Loom, weaving figured damask hair seating. 3 Ross, Talmaalge. Fireplace, double draught. 5 Ross, William Cora planter, &c. 1 Ross, William Cora planter, &c. 1 Ross, William Brand, for flour bar			
Rose	00		
Commonstraints Comm			
Water wheel			
Hoops, splitting			Cone Timothy
Nose			Dage William
Churn.			
Trip hammer. 2 15 15 15 15 15 15 15			
Brick machine Ross, Charles Rules, or measures for boards, leather, & & & & & & & & & & & & & & & & & & &	7 7		
Rules, or measures for boards, leather,			
Ross Greenberry			
Tailoring, art of	8	&c	,
Stoves			Ross, Greenberry
Ross, James E. Beehives. 1 Ross, James P. Straw cutter. 1 Ross, Joel H. Swing, for exercise. 20 Ross, Joel H. Bath, vapor. 20 Ross, John G. (not B., as in classification) Mill tide. 13 Ross, John G. (not B., as in classification) Mill tide. 13 Ross, Joseph. Thrashing machine. 1 Ross, Joseph. Thrashing machine, preventing dust. 1 Ross, Joseph. Hulling clover see' and cleaning. 1 Ross, Stephen. Propelling doats across ferries. 3 Ross, Talmadge. Chura, and working it. 1 Ross, William. Chura, and working it. 1 Ross, William. Carriage. 1 Ross, William. Carriage. 1 Ross, William. Brand, for flour barrels. 2 Ross, William W. Thrashing machine. 1 Ross, William W. Thrashing machine. 1 Ross, William W. Salt, manufacturing, fine and coarse. 1 Ross, William W.			
Ross, James P. Straw cutter. 1 Ross, Joel H. Swing, for exercise. 20 Ross, Joel H. Bath, vapor. 20 Ross, John G. Mill tide. 13 Ross, John G. Mill tide. 13 Ross, John H. Illuminator for staircases. 1 Ross, Joseph. Thrashing machine. 1 Ross, Joseph. Thrashing clover seet and cleaning. 1 Ross, Samuel Loom, weaving figured damask hair seating. 3 Ross, Talmadge. Propelling boats across ferries. 7 Ross, William. Chura, and working it. 1 Ross, William. Carriage. 1 Ross, William. Carriage. 1 Ross, William. Carriage. 1 Ross, William. Thrashing machine. 1 Ross, William. Sand, for flour barrels. 2 Ross, William W. Thrashing machine. 1 Ross, William W. Thrashing machine. 1 Ross, William W. Salt, manufacturing, fine and coarse. 1 <td></td> <td>Beehives</td> <td></td>		Beehives	
Ross		Straw cutter	Ross, James P
Ross	mill for 13	Grinding, corn and cob m.	Ross, James P
Ross, Joel H Bath, vapor. 20 Ross, John C Corn sheller 1 Ross, John G Mill tide 13 Ross, Joseph Illuminator for staircases 5 Ross, Joseph Thrashing machine, preventing dust. 1 Ross, Joseph Hulling clover see' and cleaning 1 Ross, Samuel Loom, weaving figured damask hair seating. 3 Ross, Stephen Propelling boats across ferries 7 Ross, Talmadge Fireplace, double draught 5 Ross, William Corn planter, &c 1 Ross, William Carriage 10 Ross, William Brand, for flour barrels 2 Ross, William C Thrashing machine 1 Ross, William W			
Ross			
Ross			
Ross, John H. Illuminator for staircases. 5 Ross, Joseph. Thrashing machine, preventing dust. 1 Ross, Joseph. Hulling clover seet and cleaning. 1 Ross, Samuel. Loom, weaving figured damask hair seating. 3 Ross, Stephen. Propelling boats across ferries. 7 Ross, Talmage. Chura, and working it 1 Ross, William. Lathe, turning. 14 Ross, William. Cora planter, &c. 10 Ross, William. Brand, for flour barrels. 2 Ross, William C Thrashing machine. 1 Ross William C Thrashing machine. 1 Rossitr, Joseph P Selt, manufacturing, fine and coarse. 1 Rntch, Benjamin. Fids for ships' masts. 7		Mill tide	Ross, John G., (not B., as in classification
Ross, Joseph. Thrashing machine. 1 Ross, Joseph. Thrashing machine, preventing dust. 1 Ross, Joseph. Hulling clover seet and cleaning. 1 Ross, Stephen. Propelling boats across ferries 7 Ross, Talmange. Chura, and working it 1 Ross, William. Corrige. 14 Ross, William. Corrige. 10 Ross, William. Carriage. 10 Ross, William. Brand, for flour barrels 2 Ross, William C Thrashing machine. 1 Ross, William C Thrashing machine. 1 Ross, William C Thrashing machine. 1 Ross, William C Thrashing machine. 1 Ross, William C Thrashing machine. 1 Ross, William C Thrashing machine. 1 Ross, William C Thrashing machine. 1 Ross, William C Thrashing machine. 1 Ross, William C Thrashing machine. 1 Ross, William C Thrashing machine. 1 Rossiter, Joseph P Salt, manufacturing, fine and coarse. 1 Ratch, Benjamin. Fids for ships' maste. 7			Ross John H.
Thrashing machine, preventing dust. 1			
Ross, Joseph			
Loom, weaving figured damask hair seating. 3 3 3 3 3 5 5 5 5 5			Ross Joseph
Ross, Stephen			
Ross, Stephen Propelling boats across ferries 7 Ross, Talmage Chura, and working it 1 Ross, Talmadge Fireplace, double draught 5 Ross, William Lathe, turning 14 Ross, William Cora planter, &c. 1 Ross, William Brand, for flour barrels 2 Ross, William C Thrashing machine 1 Ross, William W Thrashing machine 1 Rossiter, Joseph P Salt, manufacturing, fine and coarse 1 Ratch, Benjamin Fids for ships' masts 7			
Ross, Talmage			Ross, Stephen
Ross, Talmauge Fireplace, double draught 5 Ross, William Lathe, turning 14 Ross, William Cora planter, &c. 1 Ross, William Brand, for flour barrels 2 Ross, William Thrashing machine 1 Ross, William W Thrashing machine 1 Rossiter, Joseph P Salt, manufacturing, fine and coarse 1 Rostier, Benjamin Fids for ships' masts 7			
Ross, William Lathe, turning 14 Ross, William Cora planter, &c. 1 Ross, William Carriage 10 Ross, William Brand, for flour barrels 2 Ross, William Thrashing machine 1 Ross, William W Thrashing machine 1 Rossiter, Joseph P Salt, manufacturing, fine and coarse 1 Rotch, Benjamin Fids for ships' maste 7			Ross, Talmadge
Ross, William Cora planter, &c. 1 Ross, William Carriage 10 Ross, William Brand, for flour barrels 2 Ross, William C Thrashing machine 1 Ross, William W Thrashing machine 1 Rossiter, Joseph P Salt, manufacturing, fine and coarse 1 Ratch, Benjamin Fids for ships' masts 7			Ross, William
Ross, William Carriage 10 Ross, William Brand, for flour barrels 2 Ross, William C Thrashing machine 1 Thrashing machine 1 Rossiter, Joseph P Salt, manufacturing, fine and coarse 1 Rost, Benjamin Fids for ships' masts 7			
Ross, William C	10	Carriage	Ross, William
Ross, William C	2	Brand, for flour barrels	Ross, William
Ross, William W			
Rossiter, Joseph P		Thrashing machine	Rose, William W
Ratch, Benjamin Fide for ships' masts 7			
Emily End in the second of the			Rntch, Benjamin
			Rotch, Francis
Rutch, Francis Constructing beats and vessels 7			
Rotch, William R Fur blower 3		Fur blower	Rotch, William R.
Rath, Augustus	n.ore	Furnes, melting iron o	Both. Augustus

PATEMYRIM.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Roumage, J. L. F	Flax and hemp machine	3	73
Roup, Jacob		11	993
Rouse, Jonas		2	46
Rouse, Robert C	Cooking stove	5	139
Rouse, Simeon	Cambooses for distilling fresh from	_	
Rouse & Taylor, (not Rouse, as in class.)	Tanning leather, &c	5 16	194 309
Rouselt, H. and E. J.	Corn sheller	i	8
Rowan, William	Boxes, anti-friction, for axles	10	205
Rowan and Wise	Tubes, clay, manufacturing	15	290
Rowand, Thomas	Water wheel, tide	ii	234
Rowand, Thomas	Bars, hollowing out, iron	2	39
Rowe, Bradford	Boot crimps	16	293
Rowe, James	Car, and circular railroad	10	206
Rowe, James	Excavating earth, elevating, &c	9	195
Rowe, James	Mill, crushing hard substances	13	257
Rowe, William	Thrashing clover seed	1	27
Rowe, William	Hulling clover seed	1	13
Rowell, Thomas	Treenails for ships	7	178
Rowell, Thomas	Pegs, making	14	271
Rowell, Thomas	Pegs, pointing, splitting, &c	14	271
Rowland, Daniel	Coffee pots	17	310
Rowland, Nathan	Steam engine, vibrating	6	162
Rowley, Jireh	Wheelbarrows	10	215
Rowse and Kingsbury Roy, Robert	Steering wheel	7	178
Royer, Jacob	Stoves, spiral	5 1	146
Roys, Franklin	Cutting and grinding fodder Bread, knife for cutting	17	11 309
Roys, R. D., and Newall French	Boring machine, and mortising	i 4	266
Rozenborg, Frederick	Type, distributing and setting up	18	329
Ruble, Thomas	Water wheel, letting the water on	ii	233
Rublee, Norman	Lamps, tallow, &c	-5	133
Rucker, T., jr., (assignee of P. Cheek)	Thrashing machine	ī	31
Rucco, Jules	Elixir of life	4	108
Rudd, Daniel	Propelling ships and other vessels	7	175
Rudd, Stephen	Propelling vessels in a calm	7	175
Rudder, James	Block sheaves, anti-friction bush for	7	167
Rueckert, Louis	Piano forte	18	325
Ruffner, David and Jo.	Salt water, mode of obtaining	4	116
Ruffner, Tobias	Wells, making	. 9	901
Rugg, Micah	Bolts, trimming the heads of	2	40
Rugg, Samuel	Harrow, revolving	1	13
Ruggles, Barnabas	Wheels, felloes, sawing	10	214
Ruggles, Barney Ruggles, Charles E	Wheels, spring, for carriages	10	215
Ruggles, Draper, and others, (ass'nees of	Oil, refining	4	112
Elbridge G. Matthews)	Plough beams, &c., hewing	14	273
Ruggles, Draper, and others, (ass'nees of	- tough beams, a.c., newing	**	2.0
Elbridge G. Matthews)	Ploughs, manufacture of	14	273
Ruggles, Elisha	Fenders, fire, &c	5	196
Ruggles, Fordyce	Fire arms	19	334
Ruggles, Henry	Pitch, making certain matters for	4	114
Ruggles, Henry	Spinning, throstle frame	3	93
Ruggles, Henry	Pitch, making	4	114
Ruggles, John.	Railroad, rails for	9	198
Ruggles, John	Steam engine, locomotive, for inclined		
AND A STATE OF THE	planes	6	159
Ruggles, Joseph	Water blast	11	229
Ruggles, Lazarus	Hulling rice, cleaning	1	14
Ruggles, Lazarus	Nails, manufacturing	3	53
Ruggles, Levi	Winding quills	3	95
Ruggles, Nathaniel	Boots and shoes, gum elastic, &c	16	294
of I M C Armshall	Dlougha improvement in militar	, !	90
of J. M. C. Armsby).	a roughs, improvement in guiding	1	40

Ruggles Alephen P. Printing press Winnowing, separating onion seed from grain. Rumsey, Edward Flax and hemp machine. 3 Rumsey, Edward, ex'or of Jas. Rumsey. Seam engine, nantical. 6 Rumsey, Edward, ex'or of Jas. Rumsey. Seam engine, nantical. 6 Rumsey, James. 6 Rumsey, James. 7 Rumsey, James. 7 Rumsey, James. 8 Rumsey, James. 9 Rumsey, James.	PATEMORNS.	enventions or descovering.	CLASS.	PAGE.
Hunt). Boots and shoes, soles of. 16 Ruggles, Stophen P Printing press 18 Ruggles and Tomlinson Winnowing, separating onion seed from grain. 1 Rumsey, Edward Staward Stam engine, nantical. 6 Rumsey, Edward, ex'or of Jas. Rumsey Bamsey, Edward, ex'or of Jas. Rumsey Bamsey, Edward, ex'or of Jas. Rumsey Bamsey, James. 6 Rumsey, James. 9 Rumsey, James. 9 Rumsey, James. 9 Rumsey, James. 9 Rumsey, James. 9 Rumsey, James. 9 Rumsey, James. 9 Rumsey, James. 9 Rumsey, James. 9 Rundell, Abraham Cutting grain, and rake 1 Rundled, Thomas. 9 Rundled, Thomas. 9 Rundled, Thomas. 9 Rundled, Thomas. 9 Rundled, Thomas. 9 Runsell, James J Boilers, steam. 9 Russell, Barzillia Warning rooms. 5 Russell, Barzillia Parillia Saw mill, portable 18 Russell, David Saw mill, portable 14 Russell, Barzillia Core sheller 11 Russell, Elijah Core sheller 11 Russell, Elijah Core sheller 11 Russell, Elijah Core sheller 11 Russell, Barzillia Saw mill, portable 11 Russell, Barzillia Saw mill, portable 11 Russell, Barzillia Saw mill, portable 11 Russell, Barzillia Saw mill, portable 11 Russell, Barzillia Saw mill, portable 11 Russell, Barzillia Saw mill, portable 11 Russell, Barzillia Saw mill, portable 11 Russell, Barzillia Core sheller 11 Russell, Barzillia Saw mill, portable 11 Russell, Barzillia Core sheller 11 Russell, Barzillia Saw mill, portable 11 Russell, Barzillia Core sheller 11 Russell, Barzillia Core sheller 11 Russell, Barzillia Core sheller 11 Russell, Barzillia Core sheller 11 Russell, Barzillia Core sheller 11 Russell, Barzillia Core sheller 11 Russell, Barzillia Core sheller 11 Russell, Barzillia Core sheller 11 Russell, James D Steam engine 11 Russell, James D Steam engine 11 Russell, James D Steam engine 11 Russell, James D Steam engine 11 Russell, James D Steam engine 11 Russell, James D Steam engine 11 Russell, James D Steam engine 11 Russell, William Core sheller 11 Russell, William Core sheller 11 Russell William Core sheller 11 Russell William Core sheller 11 Russell Wil	Raggles, Robert W., (assignee of W.			
Ruggies Alephen P	Hunt)	Boots and shoes, soles of	16	235
Rumsey, Edward Flax and hemp machine 3	Ruggies, Stephen P	Printing press		328
Rumsey, Edward	Ruggles and Tomlinson	Winnowing, separating onion seed	l	
Runsey, Edward, e.'or of Jas. Runsey Runsey, Edward, e.'or of Jas. Runsey Boilers, steam engine. 6 6 6 6 6 6 6 6 6	n	from grain	-	35
Rumsey, Edward, ex'or of Jas. Rumsey Steam engine. 6 6 6 8 8 8 8 8 8 8	Rumsey, Edward	Flax and hemp machine	_	73
Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Rumsey, James Grist mill, working Rumsey, James Rundle, Thomas Rundle, Thomas Rundle, Thomas Rundle, Thomas Rundle, Thomas Rundlet, Thomas Rundlet, Thomas Rundlet, Thomas Rundlet, Thomas Rundlet, Thomas Rundlet, Thomas Rundlet, Rumsey Rundlet, Thomas Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rundlet, Rumsey Rumse	Rumsey, Edward			159
Rumsey, James Steam engine 6		Steen subsel		152
Rumsey, James Propelling boats and ressels 7 1 1 1 1 1 1 1 1 1	Rumsey, Luward, ex or or Jas. Rumsey.	Steam engine		163
Rumsey, James	Rumsey, James			156 174
Runsey, James Grist mill 13	Rumsey, James			219
Runsey James	Rumsey, James			254
Rundel, Abraham. Cutting grain, and rake. 1 Rundle, Thomas. Cloth, mangle. 3 Rundle, Thomas. Cloth, mangle. 3 Rundlet, Thomas. Privies, in vaults. 9 Rundlet, Thomas. Bark, hemlock, extract, &c. 4 Raple, James . Winnowing mill, machinery. 1 Russel, James J. Boilers, steam. 6 Russell, Charles E. Furnace and bake oven. 5 Russell, David. Saw mill, portable. 14 Russell, David. Saw mill, portable. 14 Russell, David. Saw mill, portable. 14 Russell, Emory. Spinning, wheel heads. 3 Russell, Emory. Spinning, wheel heads. 3 Russell, Frederick A. Nails, manufacturing. 2 Russell, George O. Russell, Jacob., and S. Waterman. Russell, Jacob., and S. Waterman. Russell, Jacob., and S. Waterman. Russell, Jacob. Smut machine. 1 Russell, James. Sawing off logs, machine for. 14 Russell, James. Composition for vessels' bottoms. 4 Russell, James B. Stew setting, &c. 2 Russell, Herman. Scaw setting, &c. 2 Russell, Herman. Seawing off logs, machine for. 14 Russell, Herman. Seawing off logs, machine for. 16 Russell, William Scawall, Herman Seawing from rivers. 16 Russell, William Compass, mariners' 9 Russell, William Compass, mariners' 9 Russell, William Compass, mariners' 9 Russell, William Compass, mariners' 16 Russ, Samuel Lamps, &c. 5 Rust, Samuel Lamps, &c. 5 Rust, Samuel Lamps, &c. 5 Rust, Samuel Lamps, wicks raising and lowering 5 Rust, Samuel Lamps, murpovement in. 5 Rust, Samuel Lamps, wicks raising and lowering 5 Rust, Samuel Lamps, murpovement in. 5 Rust, Samuel Lamps, patent 5 Rust, Samuel Lamps, murpovement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improve				254
Rundle, Thomas. Cloth, mangle. 3 Rundlet, Thomas. Privies, in vaults. 9 Rundlet, Thomas. Privies, in vaults. 9 Rundlet, Thomas. Bark, hemlock, extract, &c. 4 Raple, James Winnowing mill, mechinery 1 Russell, Barzillia Winnowing mill, mechinery 1 Russell, Barzillia Werming rooms. 5 Russell, David. Power, propelling machinery 13 Russell, David. Power, propelling machinery 13 Russell, David. Power, propelling machinery 13 Russell, Barsillia Power, propelling machinery 13 Russell, Emory. Saw mill, portable 14 Russell, Emory. Spinning, and fodder 1 Russell, Emory. Spinning and quilling, &c. 3 Russell, Emory. Spinning and quilling, &c. 3 Russell, Frederick A Knobs for doors. 2 Russell, Isaac D. Sew Waterman Sawing off logs, machine for. 14 Russell, Jacob Smut machine. 1 Russell, James Composition for vessels' bottoms. 4 Russell, John Bots, shoe trees. 16 Russell, John Bots, shoe trees. 16 Russell, Vathaniel Stoves. 5 Russell, Sylvanus Pumps 11 Russell, Sylvanus Pumps 11 Russell, William Raircoad, contruction of. 9 Russell, William Composition for vessels' bottoms. 4 Russell, William Raircoad, contruction of. 9 Russell, William Composition for vessels' bottoms. 4 Russell, William Composition for vessels' bottoms. 4 Russell, William Composition for vessels' bottoms. 4 Russell, William Composition for vessels' bottoms. 4 Russell, William Composition for vessels' bottoms. 4 Russell, William Composition for vessels' bottoms. 5 Russ, Samuel Lamps, &c. 5 Russ, Samuel Lamps, &c. 5 Russ, Samuel Lamps, shade to 5 Russ, Samuel Lamps, wicks raising and lowering. 5 Russ, Samuel Lamps, improvement in. 5 Russ, Samuel Lamps, improvement in. 5 Russ, Samuel Lamps, improvement in. 5 Russ, Samuel Lamps, improvement in. 5 Russ, Samuel Lamps, improvement in. 5 Russ, Samuel Lamps, improvement in. 5 Russ, Samuel Lamps, improvement in. 5 Russ, Samuel Lamps, improve	Kundell, Abraham			11
Runsel 10mas Prives In valids Sak, hemlock Ak	Rundle, Thomas		3	69
Russell, Barzillia. Russell, Barzillia. Russell, Barzillia. Russell, Charles R. Russell, David. Russell and Davis. Russell, Elijah. Russell, Elijah. Russell, Elijah. Russell, Elijah. Russell, Elijah. Russell, Emory. Russell, Frederick A. Russell, Jacob. Russell, Jacob. Russell, Jacob. Russell, Jacob. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James D. Sear and the search of the sea	runue, Inomas	Privies, in vaults	9	197
Russell, James J. Boilers, steam. 6 6 Russell, Charles E. Furnace and bake oven. 5 5 Furnace and bake	Rundlet, Thomas		4	99
Russell, Charles E. Furnace and bake oven	Kuple, James	Winnowing mill, machinery		35
Russell David Power, propelling machinery 13	Rusn, James J			151
Power, propelling machinery 13 13 14 14 14 14 14 14	Russell, Charles E			147
Russell and Davis	Russell David			128
Russell, Elijah	Russell David			260 276
Russell, Elijah				26
Russell Emory Spinning Sp	Russell, Elijah			8
Russell, Emory. Spinning and quilling, &c. 3 Russell, Frederick A. Nails, manufacturing. 2 Russell, Isaac D.—see Waterman. Russell, Isaac D., and S. Waterman. Russell, Jacob Smut machine. 1 Russell, James Bells, hanging. 17 Russell, James Composition for vessels' bottoms. 4 Russell, James D. Steam engine. 6 Russell, John Saw setting, &c. 2 Russell, Jonathan Boots, shee trees. 16 Russell, Herman Seeding, corn planter. 1 Russell, Sylvanus Excavating from rivers. 9 Russell, Thomas J. Boring timber, machine for. 14 Russell, Walter Tanning or manufacturing leather. 16 Russell, William Rairoad, construction of. 9 Russell, William Composition for vessels' bottoms. 4 Russell, William Composition for vessels' bottoms. 4 Russell, Thomas J. Composition for vessels' bottoms. 4 Russell, Thomas J. Composition for vessels' bottoms. 4 Russell, William Rairoad, construction of. 9 Russell, William Composition for vessels' bottoms. 4 Russell, William A. Grates, and fire places, &c. 5 Rust, Samuel Lamps Rust, Samuel Lamps, &c. 5 Rust, Samuel Lamps, patent 5 Rust, Samuel Lamps, patent 5 Rust, Samuel Lamps, wicks raising and lowering. 5 Rust, Samuel Lamps, wicks raising and lowering. 5 Rust, Samuel Lamps Printing press. 18 Rust, Samuel Lamps Frinting press, Washington 18 Rust, Samuel Lamp wicks, raising 5 Rust, Samuel Lamp, improvement in. 5 Rust, Samuel Lamp, improvement in. 5 Rust, Samuel Lamp, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps, improvement in. 5 Rust, Samuel Lamps in provement in. 5 Rust, Samuel Lamps in	Russell, Emory			93
Russell, George O	Kussell, Emory			91
Russell Isaac D.—see Waterman Sawing off logs, machine for 14	Lussell, Frederick A	Nails, manufacturing		53
Russell, Isaac D.—see Waterman. Russell, Jacob. Russell, Jacob. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, James. Russell, John. Saw setting, &c. 2 Russell, John. Saw setting, &c. 2 Russell, Nathaniel. Stoves. Russell, Herman. Seeding, corn planter. 1 Russell, Sylvanus Excavating from rivers. 9 Russell, Walter Tanning or manufacturing leather 16 Russell, William Russell, William, ir Compass, mariners' Russell, William, ir Compass, mariners' Russell, William, ir Compass, mariners' Russell, William M. Grates, and fire places, &c. 5 Rust, Samuel. Lamps 5 Rust, Samuel. Lamps, &c. Lamps, &c. 5 Rust, Samuel. Lamps, spatent Rust, Samuel. Lamps, wicks raising and lowering. 5 Rust, Samuel. Lamps, wicks raising and lowering. 5 Rust, Samuel. Lamps, wicks raising and lowering. 5 Rust, Samuel. Lamps, wicks raising and lowering. 5 Rust, Samuel. Lamps, wicks raising and lowering. 5 Rust, Samuel. Lamps, wicks raising and lowering. 5 Rust, Samuel. Lamps, wicks raising and lowering. 5 Rust, Samuel. Lamps, wicks raising and lowering. 5 Rust, Samuel. Lamps, wicks raising. 5 Rust, Samuel. Lamps, wicks, raising. 5 Rust, Samuel. Lamps, improvement in. 8 Rust, Samuel. Lamps, improvement in. 5 Rust, Samuel. Lamps, improvement in. 5 Rust, Samuel. Lamps, improvement in. 5 Rust, Samuel. Lamps, improvement in. 5 Rust, Samuel. Lamps, improvement in. 5 Rust, Samuel. Lamps, improvement in. 5 Rust, Samuel. Lamps, improvement in. 5 Rust, Samuel. Lamps, improvement in. 5 Rust, Samuel. Lamps, improvement in. 5 Rust, Samuel. 8 Rutherford, Ira W. Tooth extractor, vertical.	Kussell, George O	Knobs for doors	2	48
Russell James Bells, hanging 17 17 17 17 17 17 17 1	Russell, Isaac D.—see Waterman.			l
Russell, James Bells, hanging. 17	Russell, Isaac D., and S. Waterman			277
James James Composition for vessels' bottoms 4	Russell, Jacob			24
Russell, James D. Steam engine. 6 Russell, John Saw setting, &c	Russell Tames			309 103
Russell John Saw setting, &c. 2	Russell Tames D			156
Russell, Jonathan Boots, shoe trees	Russell Tohn			57
Russell, Herman Russell, Sylvanus Russell, Sylvanus Russell, Thomas J. Russell, Walter Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, Rust, Samuel Lamps SRust, Samuel Lamps SRust, Samuel Lamps, &c. SRust, Samuel Lamps, &c. SRust, Samuel Lamps, shade to SRust, Samuel Lamps, wicks raising and lowering Rust, Samuel Rust, Samuel Rust, Samuel Rust, Samuel Lamps SRust, Samuel Lamps Rust, Samuel Lamps, wicks raising and lowering Rust, Samuel Rust, Samuel Rust, Samuel Rust, Samuel Lamps Rust, Samuel Rust, Sa	Russell, Jonathan			295
Russell, Herman Russell, Sylvanus Russell, Sylvanus Russell, Thomas J. Russell, Walter Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, William Russell, Rust, Samuel Lamps SRust, Samuel Lamps SRust, Samuel Lamps, &c. SRust, Samuel Lamps, &c. SRust, Samuel Lamps, shade to SRust, Samuel Lamps, wicks raising and lowering Rust, Samuel Rust, Samuel Rust, Samuel Rust, Samuel Lamps SRust, Samuel Lamps Rust, Samuel Lamps, wicks raising and lowering Rust, Samuel Rust, Samuel Rust, Samuel Rust, Samuel Lamps Rust, Samuel Rust, Sa	Russell, Nathaniel			136
Russell Sylvanus Excavating from rivers 9	Russell, Herman			22
Russell, Thomas J	Kussell, Sylvanus		9	195
Russell	Kusseii, Sylvanus	Pumps	11	224
Russell, William M. Grates, and fire places, &c. 5 Rust, Samuel. Lamps 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, patent 5 Rust, Samuel. Lamps, patent 5 Rust, Samuel. Lamps, wicks raising and lowering 5 Rust, Samuel. Lamps 5 Rust, Samuel. Lamps 15 Rust, Samuel. Lamps 16 Rust, Samuel. Lamps 17 Rust, Samuel. Lamps 18 Rust, Samuel. Printing press 18 Rust, Samuel Printing press 18 Rust, Samuel Printing press, Washington 18 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamps 16 Rust, Samuel Lamps 17 Rust, Samuel Lamps 17 Rust, Samuel Lamps 18 Rust, Samuel Lamps 19 Rust, Samuel Lamps 17 Rust, Samuel Lamps 18 Rust, Sa	Kussell Thomas T			266
Russell, William M. Grates, and fire places, &c. 5 Rust, Samuel. Lamps 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, patent 5 Rust, Samuel. Lamps, patent 5 Rust, Samuel. Lamps, wicks raising and lowering 5 Rust, Samuel. Lamps 5 Rust, Samuel. Lamps 15 Rust, Samuel. Lamps 16 Rust, Samuel. Lamps 17 Rust, Samuel. Lamps 18 Rust, Samuel. Printing press 18 Rust, Samuel Printing press 18 Rust, Samuel Printing press, Washington 18 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamps 16 Rust, Samuel Lamps 17 Rust, Samuel Lamps 17 Rust, Samuel Lamps 18 Rust, Samuel Lamps 19 Rust, Samuel Lamps 17 Rust, Samuel Lamps 18 Rust, Sa	Russell, Walter			302
Russell, William M. Grates, and fire places, &c. 5 Rust, Samuel. Lamps 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, patent 5 Rust, Samuel. Lamps, patent 5 Rust, Samuel. Lamps, wicks raising and lowering 5 Rust, Samuel. Lamps 5 Rust, Samuel. Lamps 15 Rust, Samuel. Lamps 16 Rust, Samuel. Lamps 17 Rust, Samuel. Lamps 18 Rust, Samuel. Printing press 18 Rust, Samuel Printing press 18 Rust, Samuel Printing press, Washington 18 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamps 16 Rust, Samuel Lamps 17 Rust, Samuel Lamps 17 Rust, Samuel Lamps 18 Rust, Samuel Lamps 19 Rust, Samuel Lamps 17 Rust, Samuel Lamps 18 Rust, Sa	Kussell, William			196
Russell, William M. Grates, and fire places, &c. 5 Rust, Samuel. Lamps 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, patent 5 Rust, Samuel. Lamps, patent 5 Rust, Samuel. Lamps, wicks raising and lowering 5 Rust, Samuel. Lamps 5 Rust, Samuel. Lamps 15 Rust, Samuel. Lamps 16 Rust, Samuel. Lamps 17 Rust, Samuel. Lamps 18 Rust, Samuel. Printing press 18 Rust, Samuel Printing press 18 Rust, Samuel Printing press, Washington 18 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamp wicks 15 Rust, Samuel Lamps 16 Rust, Samuel Lamps 17 Rust, Samuel Lamps 17 Rust, Samuel Lamps 18 Rust, Samuel Lamps 19 Rust, Samuel Lamps 17 Rust, Samuel Lamps 18 Rust, Sa	Russell, William			184
Lamps Samuel Lamps Samuel Lamps Samuel Lamps Samuel Lamps Samuel Lamps Samuel Lamps Samuel Lamps Samuel Lamps Samuel Samuel Lamps Samuel Samuel Lamps Samuel Samuel Lamps Samuel Samuel Lamps Samuel Samuel Samuel Printing press Samuel Printing press Samuel	Russell William, pr			103
Rust, Samuel Lamps 5	Rust Samuel			129 131
Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, patent 5 Rust, Samuel. Lamps, shade to 5 Rust, Samuel. Lamps, wicks raising and lowering 5 Rust, Samuel. Printing press 18 Rust, Samuel. Printing press, Washington 18 Rust, Samuel. Lamp wicks 5 Rust, Samuel. Lamp wicks, raising 5 Rust, Samuel Lamps, improvement in 5 Rust, Stephen Washboard 14 Rutherford, Ira W Tooth extractor, vertical 20	Rnst. Samuel		5	131
Rust, Samuel. Lamps, &c. 5 Rust, Samuel. Lamps, patent 5 Rust, Samuel. Lamps, shade to 5 Rust, Samuel. Lamps, wicks raising and lowering 5 Rust, Samuel. Printing press 18 Rust, Samuel. Printing press, Washington 18 Rust, Samuel. Lamp wicks 5 Rust, Samuel. Lamp wicks, raising 5 Rust, Samuel Lamps, improvement in 5 Rust, Stephen Washboard 14 Rutherford, Ira W Tooth extractor, vertical 20	Rust. Samuel		5	131
Rust, Samuel. Lamps, shade to 5 Rust, Samuel. Lamps, wicks raising and lowering 5 Rust, Samuel. Lamps 5 Rust, Samuel. Printing press 18 Rust, Samuel. Lamp wicks 5 Rust, Samuel. Lamp wicks 5 Rust, Samuel. Lamp wicks, raising 5 Rust, Samuel. Lamps, improvement in 5 Rust, Stephen Washboard 14 Rutherford, Ira W Tooth extractor, vertical 20			5	131
Rust, Samuel. Lamps, shade to 5 Rust, Samuel. Lamps, wicks raising and lowering 5 Rust, Samuel. Lamps 5 Rust, Samuel. Printing press 18 Rust, Samuel. Lamp wicks 5 Rust, Samuel. Lamp wicks 5 Rust, Samuel. Lamp wicks, raising 5 Rust, Samuel. Lamps, improvement in 5 Rust, Stephen Washboard 14 Rutherford, Ira W Tooth extractor, vertical 20			5	133
Rust, Samuel. Lamps, wicks raising and lowering. 5 Rust, Samuel. Lamps 5 Rust, Samuel. Printing press. 18 Rust, Samuel. Printing press, Washington. 18 Rust, Samuel. Lamp wicks 5 Rust, Samuel. Lamp wicks, raising. 5 Rust, Samuel. Lamps, improvement in. 5 Rust, Stephen. Washboard. 14 Rutherford, Ira W. Tooth extractor, vertical. 20	Rust, Samuel	Lamps, shade to		133
Lamps 5 Rust, Samuel Lamps 5 Rust, Samuel Printing press 18 Rust, Samuel Printing press, Washington 18 Rust, Samuel Lamp wicks 5 Lamp wicks 5 Rust, Samuel Lamp wicks, raising 5 Rust, Samuel Lamps, improvement in 5 Rust, Samuel Rust, Samuel 20 14 Rutherford, Ira W Tooth extractor, vertical 20	Rust, Samuel	Lamps, wicks raising and lowering	5	184
Rust, Samuel. Printing press 18 Rust, Samuel Printing press Washington 18 Rust, Samuel Lamp wicks 5 Rust, Samuel Lamp wicks, raising 5 Rust, Samuel Lamps, improvement in 5 Rust, Stephen Washboard 14 Rutherford, Ira W Tooth extractor, vertical 20	Rust, Samuel	Lamps		121
Rust, Samuel. Lamp wicks 5 Rust, Samuel. Lamp wicks, raising 5 Rust, Samuel. Lamps, improvement in 5 Rust, Stephen. Washboard 14 Rutherford, Ira W Tooth extractor, vertical 20	Rust, Samuel	Printing press		307
Rust, Samuel				327
Rust, Samuel Lamps, improvement in		Lamp wicks		134
Rutherford, Ira W	Rust Samuel	Lamp wicks, raising		134
Rutherford, Ira W Tooth extractor, vertical 20	rouwe, wamuel			132
Detland Tones	Rutherford Im W	Tooth extractor vertical		343
BULLIUI, JETTOS [1907 WASTONIAN [U]	Rutland, James	Iron, manufacturing		47

Ryan, Edward. Potash 4 11 Ryan, Edward. Smyan, Edward. Furnace, not and pearl. 5 12 13 14 15 15 16 16 16 16 16 16				
Ryan, Edward Potash 4 11	PATTERS AND A	MARMATORS OF DISCOMBINE	C1.435.	PAGE
Ryan, Delward Furance, pot and pearl 5 18 Ryan, W B B. Smut mechine 1 Ryder, William See Miller and Dorr. Ryderson, Reading Calarn, cutting floats of 1 Rynex, J. J. Haskins, and S. Knower. 1 Rynex, J. J. Haskins, and S. Knower. 1 Ryon, Isaac. Since Calarn, cutting floats of 1 Ryon, Isaac. See mails 14 Sabin, Aaron N Steam, applying 16 Sabin, David Truss 2 Sabin, Harvey W Beehive 1 2 Sabin, Harvey W Beehive 1 2 Sabin, William H Bedetaeds, fastening 17 318 Sakete, Londey D Braiding machine 3 61 Sackete, Dudley D Braiding machine 3 61 Saler, George T Couton, cleaning 3 71 Saler, Thomas N Boots, machine for turning, &c. 16 Saler, Thomas N Boots, machine for turning, &c. 16 Saler, Jacob Couton, Clothes, pressing 21 Salibury, Amos. Couton, Pressing 21 Salibury, Amos. Couton, Pressing 21 Salibury, Hez., jr Window spring 2 3 Salisbury & Langdon Flax and hemp machine 3 73 Salisbury & Langdon Flax and hemp machine 3 73 Salisbury & Langdon Flax and hemp machine 3 73 Salisbury, Hez., jr Window spring 2 6 7 Salonnon, John C. F. Couton, cleaning 3 73 Salisbury, Hez., jr Window spring 2 6 7 Salonnon, John C. F. Couton, cleaning 3 73 Salisbury & Langdon Flax and hemp machine 3 73 Salisbury & Langdon Flax and hemp machine 3 73 Salisbury & Langdon Flax and hemp machine 3 73 Salisbury & Langdon Flax and hemp machine 3 73 Salisbury, Hez., jr Window spring 2 6 7 Salonnon, John C. F. Cotton, cleaning 3 74 Salonnon, John C. F. Cotton, cleaning 3 74 Salonnon, John C. F. Cotton, cleaning 3 74 Salonnon, John C. F. Gin, cotton, hopper 3 74 Salonnon, John C. F. Gin, cotton, hopper 3 74 Salonnon, John C. F. Gin, cotton, hopper 3 74 Salonnon, John C. F. Gin, cotton, hopper 3 74 Salonnon, John C. F. Gin, cotton, hopper 3 74 Salonnon,	Ruthven, John	Saw, cutting timber	14	***
Ryder, William—see Miller and Dorn Ryder, William—see Miller and Dorn Ryder, William J. Suraw cetter 1 Suraw cetter 1 Rynex, J. J. Haskins, and S. Knower 1 Suraw cetter 1 Suraw cetter 1 Suraw cetter 1 Suraw cetter 1 Suraw cetter 1 Sura	Ryan, Edward	Potash	4	114
Byder, William—see Miller and Dorr. Byerson, Reading. Bylander, William J. Rynex, J. J. Haskins, and S. Knower. Rynex, J. J. Haskins, and S. Knower. Boots and aboes, water-proof, perpetual polished. Ryon, Isaac. See mails. See	Ryan, Edward	Furaace, not and pearl	- 1	19
Rylander, William J Suraw cutter 1 Rynex, J. J. Haskins, and S. Knower. 1 Rynex, J. J. Haskins, and S. Knower. 1 Rynex, J. J. Haskins, and S. Knower. 1 Rynex, J. J. Haskins, and S. Knower. 1 Suraw cutter 1 1 1 1 1 1 1 1 1	Ryder William and Dorr	Smut machine	1	3
Rynex, J. J. Haskins, and S. Knower. 1 Rynex, J. J. Haskins, and S. Knower. 1 Rynex, J. J. Haskins, and S. Knower. 1 13 16 18 18 18 18 18 18 18		Churn, cutting floats of	1	•
Bynex, J. J. Haskins, and S. Knower. Boots and shoes, water-proof, perpotent International polished International	Rylander, William J			9
Sabbaton, Paul A	Rynex, J. J. Haskins, and S. Knower	Boots and shoes, water-proof, perpe-	_	
Sabbaton, Paul A		tual polished		290
Sabbaton, Paul A Forge, hot blast 2 2 2 2 2 2 2 2 2				
Sabin, Aaron N	reyon, isaac	Oaw mans	14	214
Sabin, Aaron N	Sabbaton Paul A	Force hat blest		
Sabin, David Washing machine, and churning 17 324	Sabin, Aaron N.	Steam, applying	_ 1	
Sabin, Harvey W. Beshive Windlass 17 Sabin, Harvey W. Beshive Windlass 11 231 Sabin, William H. Bedetacas, fastening 17 Sacket, Augustus Rapid jack, for ascending rapids 7 176 Sacket, Dudley D Braiding machine 3 65 Sackensiter, Charles S Piano forte 18 335 Sackensiter, Charles S Piano forte 18 335 Sadder, George T Cotton, cleaning 3 71 71 71 71 71 71 71	Sabin, David	Truss		344
Sabin, Harvey W. Bechive	Sabin, Harvey W	Washing machine, and churning	17	318
Sabin, William H. Bedetack, fastening. 17 306	Sabin, Harvey W	Beehive	1	4
Sacket, Angustus. Rapid jack, for ascending rapids 7 176 Sacket, Dudley D. Braiding machine. 3 36 Sackmeister, Charles S. Piano forte. 18 325 Sadler, George T Cotton, cleaning 3 71 Sadler, M.C. Stoves, cooking 5 140 Sadler, Thomas N Boots, machine for turning, &c. 16 326 Sage, Charles T Hernia, cure of, by means of injection 20 342 Sage, Joseph Clothes, pressing 21 326 Sager, Jacob Washing machine. 17 317 Salisbury, Amos Clothes, pressing 21 326 Salisbury, Amos Composition, preserving rapes, &c 4 Salisbury, Amos Composition, preserving rapes, &c 4 Salisbury, Hez Jack sorew, for raising wagons 12 340 Salisbury & Langdon Flax and hemp machine. 3 73 Salisbury & Langdon Flax and hemp machine. 3 73 Salisbury & Langdon Flax and hemp machine. 3 73 Salisbury & Langdon Flax and hemp machine. 3 73 Salisbury & Uram Mattresses, bolsters, &c. 17 313 Salisbury, William Fireplace 5 196 Salomon, J. C. F. (not J. F. C., as in class.) Boilers, steam, inverted arch 6 159 Salomontall, G. F. Cotton, cleaning 3 71 Salomostall, G. F. Cotton, cleaning 3 71 Salomostall, G. F. Gin, cotton, hopper 3 75 Salomotall, Roswell Sumach, manufacturing 12 257 Sampon, Daniel Sumach, manufacturing 12 257 Sampon, Joseph Cock, valve 11 32 Sampson, Joseph Candles 4 100 Sampson, Joseph Candles Cock, valve 11 32 Sampson, Joseph Candles Candles 4 100 Sampson, Joseph Candles Candles 4 100 Sampson, Joseph Candles Candles 4 100 Sampson, Joseph Candles Candles 4 100 Sampson, Joseph Candles Candles 4 100 Sampson, Joseph Candles Candles 4 100 Samson, Chester Candles Candles 4 100 Samson, Chester Candles Candles 4 100 Samson, Chester Candles Candles Candles Candles Candles Candles Candles Candles Candles Candles Candles Candles Candles	Sabin, Harvey W			235
Sacket, Dudley D. Braiding machine. 3 3 53 53 53 53 53 53	Sabin, William H.			
Sackmeister, Charles S.				
Sadler, George T. Sadler, M. C. Stoves, cooking. 5 18 Sadler, Thomas N. Boots, machine for turning, &c. 16 Safford, Noah. 12 Sage, Charles T. Hernia, cure of, by means of injection 20 Sage, Joseph. 21 Sager, Jacob. 22 Sager, Jacob. 25 Salisbury, Amos. 27 Salisbury, Amos. 26 Salisbury, Amos. 27 Salisbury, Amos. 27 Salisbury, Hez. 37 Salisbury, Hez. 37 Salisbury, Hez. 37 Salisbury, Hez. 37 Salisbury, Eangdon 37 Salisbury & Langdon 47 Salisbury, & Uram 47 Salisbury, William 47 Salisbury, William 47 Salisbury, William 57 Salisbury, William 57 Salisbury, William 67 Salisbury, The 77 Salisbury, The 78 Salisbury, William 79 Salisbury, Richard 79 Salisbury, Richard 79 Salisbury, Richard 79 Salisbury, Richard 79 Salisbury, Richard 79 Salisbury, Richard 79 Salisbury, Richard 79 Salisbury, Richard 79 Salisbury, Richard 79 Sampon, Joseph 89 Sampson, Joseph 89 Sampson, Joseph 89 Sampson, Joseph 89 Sampson, Chester 79 Sampson, Seaph 79 Salisbury, William 79 Salisbury, William 79 Sampson, Joseph 89 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 Samson, Chester 79 S				
Sadler, M. C. Stoves, cooking. 5 Sadler, Thomas N. Boots, machine for turning, &c 16 Safford, Noah. Straw cutting machine. 1 Sage, Joseph. Clothes, pressing. 21 Sager, Jacob. Person, W. P. Salisbury, Amos. Composition, preserving rapes, &c. 4 Salisbury, Amos. Composition, preserving rapes, &c. 4 Salisbury, Hez. J. Jack sorew, for raising wagons. 12 Salisbury & Langdon Flax and hemp machine. 3 Salisbury & Langdon Flax and hemp machine. 3 Salisbury & Uram Mattresses, bolstera, &c. 17 Salisbury, William Flax and hemp machine 3 Salisbury, William Boilers, steam 6 Salomon, J. C. F. (not J. F. C., as in class.) Salisbury, J. C. F. (not J. F. C., as in class.) Salisbury, Grain Boots, steam, inverted arch 6 Salomon, J. C. F. (not J. F. C., as in class.) Salisbury, Bordon Boots, chain, for inland navigation 7 Salisbury, Bordon Boots, chain, for inland navigation 3 Salisbury, R. G. Gin, cotton, lopper 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, saw 3 Salisbury, R. G. Gin, cotton, scraper, &c. 1 Salisbury, R. G. Gin, cotton, scraper, &c. 1 Sampson, Joseph C. Caddes 4 Salisbury, R. G. Gin, cotton, scraper, &c. 1 Sampson, Joseph C. Caddes 4 Salisbury, R. G. Gaddes 4 Sampson, Joseph S. Salis of ships, regulating 7 Sampson, Joseph S. Salis of ships, regulating 7 Sampson, Joseph S. Salis of ships, regulating 7 Sampson, Joseph S. Samson, Chester Raising buildings, materials 12				
Sadier, Thomas N.				
Sage, Charles T.				
Sage, Joseph	Safford, Noah	Straw cutting machine	1	
Sager, Jacob Washing machine. 17 317 Saltor, J. H.—See Cresson, W. P. Salisbury, J. H.—See Cresson, W. P. Salisbury, A. Mos. Composition, preserving rupes, &c. 4 168 Salisbury, A.—see Langdon, B. Salisbury, Hez., jr. Jack sorew, for raising wagons. 12 940 Salisbury, Hez., jr. Window spring. 2 63 Salisbury & Langdon Flax and hemp machine 3 73 73 73 73 73 73 74 74				
Sailor, J. H.—See Cresson, W. P. Sailor, J. H.—see Cresson, W. P. Sailsbury, Amos				
Salisbury, Amos		AA aworing macorite	17	317
Salisbury	Sailor, J. H.—see Cresson, W. P.	1	- 1	
Salisbury Amos Composition, preserving rapes, &c. 4 168 Salisbury A.—see Langdon B. Salisbury Hez.		Flax and hemp machine	3	73
Salisbury Hez. Jack serew, for raising wagons 12 246				105
Salisbury & Langdon Flax and hemp machine 3 73 73 73 73 73 73 73	Salisbury, A.—see Langdon, B.			
Salisbury & Langdon	Salisbury, Hez.,	Jack screw, for raising wagons		
Salisbury & Uram		Window spring		
Salisbury & Uram Mattresses, bolsters, &c. 17 313 Salisbury & William Fireplace 5 195 Salomon, J. C. F. (not J. F. C., as in class.) Salomon, J. C. F. (not J. F. C., as in class.) Salomon, J. C. F. (not J. F. C., as in class.) Salomon, J. C. F. (not J. F. C., as in class.) Salomon, J. C. F. (not J. F. C., as in class.) Salomon, J. C. F. (not J. F. C., as in class.) Salomon, J. C. F. (not J. F. C., as in class.) Salomon, J. C. F. (not J. F. C., as in class.) Salomon, J. C. F. (not J. F. C., as in class.) Salomon, J. C. F. (not J. F. C., as in class.) Salomon, J. C. F. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class.) Salomon, Joseph S. (not J. F. C., as in class. Salomon, Joseph S. (not J. F. C., as in class. Salomon, Joseph S. (not J. F. C., as in class. Salomon, Joseph S. (not J. F. C., as in class. Salomon, Joseph S. (not J. F. C., as in class. Salomon, Joseph S. (not J. F. C., as in class. Salomon, Joseph S. (not J. F. C., as in class. Salomon, Joseph S. (not J. F. C., as in class. Salomon, Joseph S. (not J. F. C., as in class. Salomon, Joseph S. (not J. F. C., as in class. Salomon, Jose				
Salisbury William Fireplace 5 195	Salisbury & Uram			
Salomon, J. C. F. (not J. F. C., as in class.) Boilers, steam.	Salisbury, William.		5	196
Saltonstall, Gordon Boats, chain, for inland navigation 7 168 Saltonstall, G. F. Cotton, cleaning. 3 71 Saltonstall, G. F. Cotton, cleaning. 3 71 Saltonstall, G. F. Cotton, cleaning. 3 71 Saltonstall, G. F. Gin, cotton, hopper. 3 75 Saltonstall, G. F. Gin, cotton, hopper. 3 75 Saltonstall, F. G. Meal, cooling and conveying up. 12 257 Saltonstall, Nathaniel Lock, percussion. 19 335 Saltonstall, Roswell Sumach, manufacturing. 4 118 Saltonstall, Roswell Sumach, manufacturing. 4 118 Saltonstall, Roswell Sumach, manufacturing. 4 118 Sample, Smiley H. Hemp, breaking and stretching. 3 79 Sampson, Doseph Cultivating cotton, scraper, &c. 1 10 Sampson, Joseph Candles 4 100 Sampson, Joseph Candles 4 100 Sampson, Joseph Candles 4 100 Sampson, Joseph Candles Raising buildings, materials 12 366 Sampson, Chester. Raising buildings, materials 12 366 36	Salomon, J. C. F. (not J. F. C., as in class.)		6	
Saltonstall, Gordon Boats, chain, for inland navigation 7 168 Saltonstall, G. F. Cotton, cleaning 3 71 Saltonstall, G. F. Cotton, cleaning 3 71 Saltonstall, G. F. Gin, cotton, hopper 3 75 Saltonstall, F. G. Gin, cotton, saw 3 76 Saltonstall, F. G. Meal, cooling and conveying up 12 257 Saltonstall, Nathaniel Lock, percussion 19 335 Saltonstall, Roswell Sumach, manufacturing 4 118 Saltonstall, Roswell Sumach, manufacturing 4 118 Sampo, Fred. D Cock, valve 11 281 Sample, Smiley H Hemp, breaking and stretching 3 79 Sample, William P Cultivating cotton, scraper, &c. 1 10 Sampson, Daniel Oil cloth, drying 3 85 Sampson, Joseph S Sampson,	Salemon, John C. F.		1	
Saltonstall, G. F. Cotton, cleaning. 3 71				
Saltonstall, G. F. Cotton, cleaning 3 71				
Saltonstall, G. F. Gin, cotton, hopper. 3 75 Saltonstall, G. F. Gin, cotton, hopper. 3 76 Saltonstall, G. F. Gin, cotton, saw 12 257 Saltonstall, F. G. Meal, cooling and conveying up 12 257 Saltonstall, Nathaniel Lock, percussion 19 335 Saltonstall, Roswell Sumach, manufacturing 4 118 Saltonstall, Roswell Sumach, manufacturing 4 118 Saltonstall, Roswell Sumach, manufacturing 4 118 Sample, Smiley H Hemp, breaking and stretching 3 79 Sample, William P Cultivating cotton, scraper, &c. 1 10 Sampson, Daniel Oil cloth, drying 3 35 Sampson, Joseph Candles 4 100 Sampson, Joseph Candles 4 100 Sampson, Joseph Candles 4 100 Sampson, Joseph Sampson, Joseph Raising buildings, materials 12 366 Samson, Chester Raising buildings, materials 12 366 12 12 12 12 12 12 12	Saltonstall, G. F			
Saltonstall, G. F. Gin, cotton, saw 3 76	Saltonstall, G. F			
Salionstall, Nathaniel Lock, percussion 19 335	Saltonstall, G. F	Gin, cotton, saw	3	76
Salisbury, Richard Truss for hernin 20 344 Saltonstal, Roswell Sumach, manufacturing 4 118 Saltonstal, Roswell Sumach, manufacturing 4 118 Saltonstal, Roswell Sumach, manufacturing 4 118 Saltonstal, Roswell Sumach, manufacturing 4 118 Saltonstal, Roswell Sumach, manufacturing 4 118 Saltonstal, Roswell 118 Sample, Smiley H Hemp, breaking and stretching 3 79 Sample, William P Cultivating cotton, scraper, &c. 1 10 Sampson, &c. 1 10 Sampson, Daniel Oil cloth, drying 3 13 13 13 14 14 15 15 15 15 15 15	Saltonstall, F. G	Meal, cooling and conveying up		
Saltonstall, Roswell Sumach, manufacturing 4 118 Saltonstall, Roswell Sumach, manufacturing 4 118 Sampo, Fred. D. Cock, valve 11 221 Sample, Smiley H Hemp, breaking and stretching 3 79 Sample, William P Cultivating cotton, scraper, &c. 1 10 Sampson & Curtis Hulling clover seed 1 13 13 15 15 15 15 16 16 16 16				
Saltonstall, Roswell Sumach, manufacturing 4 118 Sampo, Fred. D. Cock, valve 11 321 Sample, Smiley H. Hemp, breaking and stretching 3 79 Sample, William P Cultivating cotton, scraper, &c. 1 10 Sampson, Daniel Oil cloth, drying 3 85 Sampson, Joseph Candles 4 100 Sampson, Joseph S Sampson, Josep				
Sample Smiley Hemp, breaking and stretching 3 79	Saltonstall Roswell		7 1	***
Sample Smiley H. Hemp, breaking and stretching 3 79	Samno, Fred. D.	Cock, valve		
Sample, William P. Cultivating cotton, scraper, &c. 1 10	Sample, Smiley H	Hemp, breaking and stretching	_	
Sampson & Curtis. Hulling clover seed. 1 13 13 13 13 14 15 15 15 15 15 16 16 16	Sample, William P	Cultivating cotton, scraper, &c		
Sampson, Joseph Candles 4 100 Sampson, Joseph S Sails of ships, regulating 7 177 Sampson, Joseph S Gandles 4 109 Samson, Chester Raising buildings, materials 12 365	Sampson & Curtis	Hulling clover seed		
Sampson, Joseph S. Sails of ships, regulating 7 197 Sampson, Joseph S. Gandles 4 198 Samson, Chester Raising buildings, materials 12 365	Sampson, Daniel	Oil cloth, drying		
Sampson, Joseph S	Samuson Joseph S	Raile of chine rogulating		
Samson, Chester	Sampson, Joseph S.	Sanding		
Samson, Elnathan. Shingles, sound. 14 999	Samson, Chester	Raising buildings, materials		=
	Samson, Einathan.	hingles, sound		299

PATERINGEN	INVENTIONS OR DISCOVERED.	CLASS.	PAGE
Simson, Elnathan	Shingles, sawing	14	27
Samson, Elnathan	Cooking stove	5	13
Tamson, Thomas	Packing tobacco, staves, &c., of cast	1.0	11 6
	iron	12	24
amborn, Benning	Boats and rafts, passing, &c	7	16
Sanburn, A		1	
anburn, Peter E.		5	12
anders, James		14	27
anderson, Charles		2	4
anderson, Isaac		3	8
anderson, Isaac		3	8
anderson, Isaac		3	29
anderson, Joseph		16	24
anderson, Robert	Pressing, lever powers for	12 17	31
middled Tames	Safes, &c., to protect them from insects	2	17
andford, James		7	19
undford, John		16	29
		16	23
ands, Abraham		11	3
inds & Kendig		1	2
inds, Marcellus		14	27
inds, Marcellus		17	31
anford, Blias B		3	9
anford, George B		3	8
inford, Isaac		3	. 8
nford, Isaac	Hats, carding	3	' 7
nford, Isaac		3	8
inford, Isaac	Cloth dressing	3	6
nford, James		1	2
inford, John	Plough, varying the motion	1	2
nford, Levi		14	27
aford, Nathaniel C	Currycomb, making	2	4
pford, Nathaniel C		14	26
nford, Nathaniel C		2	6
mford & Parmeleo		ĩ	2
inford, William		13	25
mford, William		15	28
rchet, John		2	5
rchet, Peter, sen		4	11
rgeant, Charles L		3	7
rgeant, Henry		9	19
rgeant, John		22	35
rgent, Charles G		3	9
rgent, Nathan		13	25
rgent, Zebulon		14	27
rtori, John B	Maccaroni, Italian paste	17	31
rtori, John B	Paste, Italian maccaroni, &c	1	1
ter, Joseph	Blind horse, curing	20	34
unders, David, sen., James G. Bisse	tt. Tyre, railroad locomotion, mode of	1.29	
Samuel Saunders.	manufacturing	2	6
unders, John		4	10
unders, William H		2	4
uno, Frederick D	Gold, separating, &c	2	4
use, Edward J	Plates, door	2	5
vage, Alvin, and H. Killam	Bellows, rotary	11	21
vage, Alvin	Thrashing machine	1	2
wage, Anthony	Stoves, anthracite coal	5	13
vage & Davidson	Plough	1	1
vage, Edward, and S. North	Fire arms	19	33
vage, Elisha C	Hooks and eyes	21	35
vage, Israel S	Water wheel reacting	11	23
vage, James S	Boom derrick	12	24
		13	25

Patritums.	inventions or descovering.	CLASS.	PAG
kvage, Simeon	Washing machine	17	1
lavary, Richard	Nails and spikes, wrought	2	l
avignac, Philip A. De	Truss, spiral	20	1
awin, John P	Friction, cylinder, co-operating	13	9
awin & Skinner	Tide mills	11	2
awin & Wait	Printing press, cylindrical	18	3
awin & Wait	Printing press, circular	18	3
awyer, Abraham	Grist mill	13	9
awyer, Augustus	Mill machinery	13	9
awyer & Clark	Mill stones, concave and convex	13	9
awyer, Henry R	Fire place and chimney stack, &c	5	1
awyer, Isaac	Forges, backs, blacksmith	2	
awyer, James	Shingle machine	14	2
awyer, James	Pulp strainer	3	
awyer, James	Excavating earth, and removing	9	1
awyer, Nathan	Brick press	15	2
awyer, Nathan	Brick press	15	2
awyer, Samuel	Blocks, stereotype	18	3
awyer, Samuel	Bands, &c	13	2
awyer, Samuel	Corks, cutting	14	2
awyer, Samuel	Wool, cotton, cleaning, &c	3	:
awyer, Samuel	Door spring	2	·
awyer, Samuel	Gin, cotton, roller	3	1
awyer, Samuel	Acoustic drum	8	1
awyer, Samuelawyer & Smith	Gin, cotton	15	9
axton, Horace	Churn	13	_
axton, Horace	Fireplace	5	15
axton, Joseph	Pencil case, ever pointed	18	33
axton, Joseph	Printing press	18	39
axton, J., and G. Elliott—see Harned &	rimung prosessions	10	
Elliott.		- 1	
ayre, Stephen	Rigging vessels	7	17
ayre, Thomas O	Stoves, cooking, semi-circular	5	14
cammon, Samuel, and R. Nason	Smut machine	i	9
carborough, Thomas Hcarbrough, Wmcarbrough, Wm	Press, cotton	12	94
carbrough, Wm	Propelling steamboats and other vessels	7	17
carbrough, Wm	Steam, generating	6	16
carbrough, Wm	Hulling rice, polishing	1	1
carbrough, Wm	Lever power, &c	12	24
carbrough, Wm	Planking vessels	7	17
chaffer, William	Flute, German	18	32
chaffle, Charles F	Spinning wheel	3	9
chammen, E. B. (in classific'n Shammon)	Pumps	11	29
chenck, John T	Propelling boats by levers, &c	7	17
chenck, Peter H.	Winnowing grain	1	3
The second secon	() marine and a marine	1	1
chenck, Peter H	Grain, measuring		
chenck, Peter H chermerhorn, Jason B	Churn	1	
chermerhorn, Jason B chermerhorn, John F., & Rufus Porter,	Churn	1	
chenck, Peter H. chermerhorn, Jason B. chermerhorn, John F., & Rufus Porter, (not Jno. Schermerhorn, &c., as in class.)	ChurnSeeding, tilling, and planting, &c	1	
chenck, Peter H. chermerhorn, Jason B. chermerhorn, John F., & Rufus Porter, (not Juo. Schermerhorn, &c., as in class.) cherpf, George A.	Churn	1 4	11
chenck, Peter H. chermerhorn, Jason B. chermerhorn, John F., & Rufus Porter, not Jno. Schermerhorn, &c., as in class.) cherpf, George A. chevenell, Richard S.	Churn		114 25
chenck, Peter H. chermerhorn, Jason B. chermerhorn, John F., & Rufus Porter, (not Jno. Schermerhorn, &c., as in class.) cherpf, George A. cherpf, George A. chieffelin, John	Churn	1 4	114 25
chenck, Peter H. chermerhorn, Jason B. chermerhorn, John F., & Rufus Porter, (not Jno. Schermerhorn, &c., as in class.) cherpf, George A. chevenell, Richard S. chieffelin, John. chirer, C. J., and T. W. Cross. (not	Churn	1 4 13 4	114 25 111
chenek, Peter H. chermerhorn, Jason B. chermerhorn, John F., & Rufus Porter, (not Jno. Schermerhorn, &c., as in class.) cherpf, George A. chevenell, Richard S. chieffelin, John chirer, C. J., and T. W. Cross, (not Shirrer, as in classification).	Churn	1 4 13 4	114 256 111 201
chenck, Peter H. chermerhorn, Jason B. chermerhorn, John F., & Rufus Porter, not Jno. Schermerhorn, &c., as in class.) cherpf, George A. chevenell, Richard S. chieffelin, John. chirer, C. J., and T. W. Cross, (not Shirrer, as in classification). chirer, John	Churn	1 4 13 4	114 256 111 201
chenck, Peter H. chermerhorn, Jason B. chermerhorn, John F., & Rufus Porter, (not Jno. Schermerhorn, &c., as in class.) cherpf, George A. chevenell, Richard S. chieffelin, John. chirer, G. J., and T. W. Cross, (not Shirrer, as in classification). chirer, John chirer, John. chirer, John.	Churn	1 4 13 4 9 19	250 111 201 337
chenck, Peter H. chermerhorn, Jason B. charmerhorn, John F., & Rufus Porter, (not Jno. Schermerhorn, &c., as in class.) cheref, George A. chevenell, Richard S. chieffelin, John. chirer, C. J., and T. W. Cross, (not Shirrer, as in classification). chiefer, John chaitmann, Issac, (not Schnaltman, as in classification).	Churn	1 4 13 4 9 19	256 111 201 337 185
cherner, Peter H. chermerhorn, Jason B. charmerhorn, John F., & Rufus Porter, (not Jno. Schermerhorn, &c., as in class.) cherpf, George A. chevenell, Richard S. chieffelin, John. chieffelin, John. chieffelin, John. chieffelin, John. chieffelin, John. chieffelin, John. chieffelin, John. chieffelin, John. chieffelin, John. chieffelin, John. chaltmann, Issac, (not Schnaltman, as in classification). chaltmann, Issac, (not Schnaltman, as in classification).	Churn	1 4 13 4 9 19	114 956 111 901 337 185
chernek, Peter H. chermerhorn, Jason B. chermerhorn, John F., & Rufus Porter, (not Jno. Schermerhorn, &c., as in class.) cherpf, George A. chevenell, Richard S. chieffelin, John. chirer, C. J., and T. W. Cross, (not Shirrer, as in classification). chirer, John. chneitmann, Issac, (not Schnaltman, as in classification). chnebly, William and Thomas. henebly, William and Thomas.	Churn	1 4 13 4 9 19 8 1	114 256 111 201 337 185 115
cherner, Peter H. charmerhorn, Jason B. charmerhorn, John F., & Rufus Porter, (not Jno. Schermerhorn, &c., as in class.) cherpf, George A. chevenell, Richard S. chieffelin, John. chirer, G. J., and T. W. Cross, (not Shirrer, as in classification). chirer, John chaeling, Issac, (not Schnaltman, as in classification). chaely, William and Thomas. chaebly, William and Thomas.	Churn	1 4 13 4 9 19 8 1 2 18	114 956 111 901 337 185 11 54
chenck, Peter H. chermerhorn, Jason B. charmerhorn, John F., & Rufus Porter, (not Jno. Schermerhorn, &c., as in class.) cherpf, George A. chevenell, Richard S. chieffelin, John. chirer, G. J., and T. W. Cross, (not Shirrer, as in classification). chirer, John chneiter, John chneiter, John chneiter, John chneiter, John chneiter, John chneity, William and Thomas henebly, William and Thomas chnebly, William and Thomas chnebly, William and Thomas	Churn Seeding, tilling, and planting, &c Provisions, curing meats Horse power, and accelerating motion Mead, carbonated, &c Window sash Stock, gun, crooking Glasses for spectacles Cutting grass. Nails and spikes, &c Printing press Accordeons, tuning reeds of	1 4 13 4 9 19 8 1	23 114 256 111 201 337 185 11 54 328 321

, PATEMERS.	ENVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Scholder, John	Excavating & removing earth, scraper		
m 1 16 11 Tananh	for	9	195
Scholfield, Joseph	Loom	3 1	80 9
Scholfield, Nathan.	Water wheel, &c., regulating, &c	ıi	234
Scholfield, Nathan	Water wheel, &c., regulating, &c	ii	234
Scholfield, Nathan	Pendulum regulator, for water wheels	13	259
Schoolfield & Stanton	Water wheel, spiral	11	234
Schoonhoven, Henry	Flax, dressing	3	72
Schoonmaker and Dolson	Plough, cast iron	11	19
Schreiner, Joseph H., (in class. Shreiner)	Pumps, balance wheel	2	225 57
Schriener, J. H	Auger	14	265
Schreiner, Joseph H	Valve, safety	6	163
Schriber, John	Piano forte	18	325
Schrock, John M., and John G. Fischer.	Clocks, improvement in	8	184
Schuyler and Hitchcock	Water wheel, iron	11	233
Schuyler, Robert	Propelling vessels by means of a con-	-	
Statem Adam	tinuous stream of water Broom making	7 17	175 309
Schater, Adam Scofield, George S	Books, binders' boards, cutting	18	321
Scott, A	Cement, for walls, &c	4	102
Scott, Enoch	Screw heads, and rivets, &c	2	58
Scott, Isaac	Window spring	2	63
Scott, Isaac.	Pumps, boxes, metallic, single valve	11	225
Scott, John	Fire proof chests	2	42
Scott, John	Fire proof cheets	2	42
Scott, John	Asbestos, use and application of, &c	5 5	123 144
Scott, John	Refrigerator	17	313
Scott, John	Glass frames, for pictures	î8	322
Scott, John	Glass frames, for looking-glasses	15	288
Scott and Selden	Composition for softening cast or crude		
G. A. and Galden	Tron softening &c	2	103
Scott, Thomas	Iron, softening, &c	10	212
Scott, Thomas M	Candles, dipping	4	100
Scott, William K	Flax and bemp machine	3	73
Scoville, Hiram H., and Eunice Avery, (administratrix of Wm. Avery, dec'd)	Rocks, machine for drilling	9	199
Scripture, Eliphalet S	Oil feeders	5	134
Scripture, Eliphalet S	Wheels for carriages	10	213
Scripture, E. S	Press, centripetal power	12	241
Scripture, John	Churn	1	1
Scudder, Isaiah, (assignor to Milo J. Whiton)	Bark mill	13	250
Seabold, Christ., jr	Hulling clover seed	i	13
Seabolt, Henry	Wine from cider	4	119
Seabury, Charles P	Piano forte	18	325
Seabury, Micah	Springs, carriage, leaves of steel	10	210
Seagrave, John D	Loom sattinet	3	82
Sealy, Richard	Distilling still, steam, and condenser	4	106
Sealy, Richard	Hydro-pneumatic apparatus for rais- ing beer, &c	11	993
Sealy, Richard	Lever, raising bodies		241
Sealy, Richard	Pumps, beer and cider	iï	225
Sealy, Richard	Bed bugs, destroying	17	307
Seaman, Cornelius	Oar head	7	171
Searle, Augustus	Scythe manufacturing	2	59
Searle, A. H.—see Thurston. Searle, John	Beehive and houses	1	
Sears, David	Winnowing machine, fanning mill	l î	35
Sears, Nathan	Bark, breaking		249

Patentriq.	DIVERTIONS OR DISCOVERING.	CLASS.	PAGE.
Seaver and Fay	Plough, cast iron	1	10
Scay, Thomas	Gold, separating from its ores, &c	2	45
Sebo, John	Awnings, improvement in	29	357
Sechler, D. M	Straw cutter	1	37
Secor, Elijah		1.8	38
Secor, James.		ų	274 274
Secor, James.		18	255
Sedam, Henry	Nails, heading	2	-
Sedgwick, W., and John Brooks		ĩ	14
Seebold, Christian	Washing machine	17	315
Seely, Holly	Window fastenings, &c	2	63 56
Seely, Holly	Rivets, and bolt cutter, &c	2	56
Seely, Josiah C		3	π
Seely, Obed	Plough, cast iron	1	. 19
Seely, Obed	Spinning wheel.	3	93
Seely, Oran W	Boilers, steam and evaporator, &c	6	152
Seely, Oran W			006
Seely, Oran W	of bricks, &c	15	289 286
Seely, Oran W., (ass'ee of Josh. Evered)		15 11	234
Seger, Hiram	Garments, measuring and cutting	21	352
Seger, Hiram	Dresses, ladies', guide for cutting	21	· 351
Seger, James S.	Balance, weighing machine	12	240
Seger, James S.	Clocks	8	183
Seger, James S.	Clocks	8	183
Seger, John	Cooking machine, for families	5	126
Seger, William	Lotteries	8	185
Seguine, Bornt		3	71
Seitz, John	Plough	1	16
Selby, John Selden, Elias	Painting rooms	18	324
Selden, Roger	Boring, perpendicular	9 14	193 266
Seldon, George M	Pump, tide, basin	ii	227
Sellers and Bartle	. Cordage, rope making	3	70
Sellers, Charles W	Salt, manufacturing, fine from coarse.	4	116
Sollers, Coleman	. Pulp dresses	3	87
Sellers, Charles, and Geo. Escol Sellers.	Pipes, lead, machinery for manuf. of	2.	55
Sellers, Charles and George E	Steam engine, locomotive	6	158
Sellers, George Escol	Hammer, working forge	2	45
Sellers, George Escol	Pipes, lead, machinery for making	2	55
Sellers, George E	Furnace, smelting ore	2	u
Sellers, George E.—see Greenwood. Sellers, James	Window and other frames, &c	9	901
Sellers, James, and A. L. Pennock	Clasps of carpet bags	2	901 41
Sellers, James, and A. L. Pennock	Mail bags, &c., mouth-piece	16	298
Rellers, Nathan	Sifter, wire rolling	5	134
Sellick, Thaddeus	Saw, circular, &c	2	57
Seltzer, Adam	Preserving & holding butchers' meat,		
•	&c	17	313
Semple, James	Coaches, steam	10	209
Semple, Robert	Truss, gum elastic, for hernia	20	344
Senior, William F Senneff, Jacob, (in classification Sennett)	Piano fortes, bottoms for	18	326
Sernell, James E	Pipes, metal, machinery and process	3	82
	of manufacturing	2	55
Severance, Levi	Rivet making	2	56
Severson, Stephen	Garments, measuring and cutting	20	351
Sewall J. and C	Patterns, for moulding spikes, &c	2	54
Seward, Martin and Samuel L	Seeding, sowing seed	ĩ	23
Seward, Martin and Samuel L Sewall, William, jr Sexton, Jacob W	Press, cotton	12	243
Sexton, Jacob W	Steam engine, horizontal	6	159
Sexton, Samuel E	Stoves, cooking	5	141
		5	141

- PATERINANA.	INVENTIONS OR DISCOVERING.	CLASS.	PAGE.
Maxton, Samuel B	Cooking stoves	5	120
Seybert and Vanuxem	Acid, margaric, stearic, &c	Ă	7
Seydle and Ward	Pipes, leaden, &c	2	3
Seymour and Battis	Stoves	5	13
Seymour, Benjamin	Rolling mill, machinery	2	5
Seymour, Benjamin	Iron hoop, straightening	2	49
Seymour, Bradford	Castings, smoothing the oxide and sand on	2	41
Seymour, Bradford	Fluids, retention and discharge of	11	222
Seymour, Francis	Block sheaves, cast iron, &c	7	167
Seymour, John F., (ass'nee of Lucius O. Palmer)	Stove, (design)	5	137
Seymour, John F., (ass'nee of Lucius O.	~	_	
Palmer)	Stove, (design)	5	137
Seymour, Pierpont	Sawing machine	1	23
Seymour and Whipple	Fire alarm	5	126
Shackford, D. and T	Dough machine	17	312
Shackford, Josiah	Propelling boats	7	175
Shaffer, Philip	Thrashing machine	22 22	31 350
Shailer, Reuben	Trap for catching animals	16	298
Shaler, Franklin	Press, cotton	12	242
Shaler, Nathaniel	Signals for vessels	7	177
Shalk and Tintoff	Engine, fire	1i	221
Shallcross, Stephen	Spinning, throstle, wool, &c	13	93
Shankland, James W	Carding machine	3	68
Shannon, Henry A	Carding machine	3	68
Share, Joseph	Furnace, portable, &c	2	44
Share, Joseph	Bolts, castings for ships	2	40
Share, Philip T	Wheels, horse, detaching	10	215
Share, Philip T	Steering wheels for vessels	7	178
Sharman, Daniel	Cock, stop	11	220
Sharman, Hazard	Press, lever	12	244
Sharp, Austin W. and William F. Horton	Boilers, steam or generator	6	159
Sharp, James	Furnace, refining iron	2	44
Sharp, James	Hammer, arm-forge	2	45
Sharp, John	Spinning wool and yarn	3	94
Sharp, Joseph P	Plough	1	17
Sharp, William	Springs, carriage	10	210
Sharp, William and Heman W Sharpe, J. K.—see Hyatt, F. B.	Forges, blacksmiths', producing blast.		43
Sharpless, James	Wind wheel	111	235
Sharpless, James	Wheel within cylinders	13	261
Sharrock, John T	Cotton manufacture	3	71
Shattuck, AsaShattuck, Jos	Thrashing machine	1	29
Shaw & Briggs	Lock, percussion	19	335
Shaw & Burk	Splitting leather.	16	301 39
Shaw, Erastus.	Axes, forging	2	39
Shaw, Erastus M	Mortising and tenoning	14	271
Spaw, Erastus M	Mortising machine	14	270
Shaw, Erastus M	Mortising and tenoning	14	371
Shaw, Francis B	Cateract, removing by tubes	90	341
DARW, George W	Bugles, keyed, of turtle shell	18	321
Shaw, Jacob, Ir	Shutters, apparatus for closing &c	19	60
Shaw, James.	Spinning wheel	3	93
Snaw, John	Straw cutter	1	26
Suaw, John.	'l'hraching machine	1 1	31
Shaw, John.	Kndderg hanging	7	177
DIAW, JUHU	l'Inrashing machine		29
Shaw, Jonathan	Recurying spirits by steam	4	115
Shaw, Joshua.	Fire area discharge A	4	105
43	rate arms, unscharging, occ	19	334

Shaw, Joshua. Cannon, primers for, percussion. 19 19 19 19 19 19 19 1	PATENTEES.	inventions or discoviniss.	CLASS.	PAGE
Shaw, Joshua. Lock, percussion, cannon. 19 Shaw, Joshua. Lock, portable, cammon. 19 Shaw, Joshua. Cannon, printers for, percussion. Shaw, Joshua. Shaw, Joshua. Gun, percussion. Dough breaking machine. 17 Shaw, Luke. Blasting rocks. Shaw, Cuke. Blasting rocks. Shaw, Cuke. Blasting rocks. Shaw, Cuke. Blasting rocks. Shaw, Cuke. Blasting rocks. Shaw, H. Horse wheel, inclined. 13 Shaw, Cukerh Shaw, Cukerh Shaw, Thomas. Shaw, Culverh Shaw, Thomas. Shaw, William Shaw, Thomas. Shaw, William Hinges and tubes. Stove, improvement in. Shaw, William Propelling boats, rowing. The shaw, William Propelling boats, rowing. Shaw, William Propelling boats, working mills, &c. The shaw, William H. Shaw, William H. Shaw, William H. Shearer, Samuel. Shaw, William H. Sheetel, Milam H. Sheetel, Milam H. Sheetel, Willi	Shaw Joshua	Lock compression reamon	19	
Shaw, Joshua. Lock, portable, cammon. Whip, percussion, pistol. Shaw, Joshua. Cannon, primers for, percussion. Shaw, Joshua. Gun, percussion. Dough breaking machine. Treams. Dough breaking machine. Treams. Blasting rocks. Blasting rocks. Blasting rocks. Blasting rocks. Blasting rocks. Blasting rocks. Blasting rocks. Arithmetic, art of teaching. Braw, Cliver H. Shaw, Cliver H. Shaw, Cliver H. Shaw, Thomas.—see Loudon, J. Cooking stove. Shaw, William. Shaw, William. Hinges and tubes. Shaw, William. Cooking stove, coal, anthracite. Shaw, William. Cooking stove, coal, anthracite. Shaw, William. Cooking stove, coal, anthracite. Shaw, William F. Shaw, William F. Shaw, William F. Shaw, William F. Shaw, William F. Shaw, William H. Boring posts, &c. Lamps, argand, arranging, &c. Sheelfer, Christian. Churn. Sheeckle, Richard W. Sheeut, W. H., and H. H. Day. Plasters, cohesive. Plasters, cohesive. Plasters, cohesive. Sheetel, Henry. Sheetel, W. H., and H. H. Day. Plasters, cohesive. Plasters, cohesive. Paper trimming machine. Sheffield & Ingraham Propelling steamboats, &c. The Sheetel, William E. Corn sheller. Sheffield & Ingraham Trongling steamboats, &c. The Sheddon, Daniel. Sheddon, Daniel. Sheddon, Daniel. Sheddon, Daniel. Sheddon, Oliver Sheddon, Samuel. Leather, &c., pricking. Leather, &c., pricking. Sheddon, William Tanning, bark of chestuat, &c. Sheddon, William, Shepard, Benjamin. Sloves, cooking, and air heating. Shepard, Benjamin. Sloves, cooking, and air heating. Shepard, Benjamin. Sloves, cooking, and air heating. Shepard, Benjamin. Sloves, cooking, and air heating. Shepard, John. Plough, cast iron, &c. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arithmetic. James Arith				
Shaw, Joshua. Whip, percussion, pistol. Cannon, primers for, percussion. Shaw, Joshua. Fire-arma Gun, percussion. Shaw, Joshua. Shaw, Luke. Dough breaking machine. 17 Shaw, Luke. Blasting rocks. Cooking stove. Cooking stove. Shaw, William Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stove, improvement in. Stoven, and there is a stove, cold, anthracite. Stower improvement in. Stoven, and there is a stove, cold, anthracite. Stower, condens, and there is a stove, cold, anthracite. Stower, cold, anth				ğ
Shaw, Joshua. Shaw, Joshua. Shaw, Luke. Shaw, Moses. Blasting rocks.	Shaw, Joshua		19	1
Shaw, Joshua. Shaw, Joshua. Shaw, Luke. Dough breaking machine. 17 Shaw, M. H. Horse wheel, inclined. Arithmetic, art of teaching. 8 Shaw, N. H. Horse wheel, inclined. 18 Shaw, Thomas. Shaw, Thomas. Shaw, Thomas. Shaw, Thomas. Shaw, William Shaw, William Shaw, William Cooking stove. Shaw, William H. Shaw, William H. Shedon, Alliam Sheekella, Richard W. Railroad, switches for, &c. Sheekella, Richard W. Railroad, switches for, &c. Sheekella, Richard W. Railroad, switches for, &c. Sheekella, Richard W. Railroad, switches for, &c. Sheekella, Richard W. Sheekell	Shaw, Joshua			
Shaw, Moses. Shaw, Moses. Shaw, N. H. Shaw, N. H. Arithmetic, art of teaching. Shaw, Thomas. Shaw, Thomas. Shaw, Thomas. Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Propelling boats, rowing. Cooking stove. Shaw, William Propelling boats, rowing. The shaw, William Sheaffer, Christian. Churn Sheedle, Richard W Sheedle, Richard W Sheeut, William H Sheeut, William H Sheeut, William H Sheeut, William H Sheet, Isaac	Shaw, Joshua			
Shaw, Moses. Blasuing rocks 9 Shaw, N. H				_ E
Shaw, N. H. Horse wheel, inclined. Arithmetic, art of teaching. 6 Shaw, Ralph. Shaw, Thomas. Shaw, Thomas. Shaw, William Shaw, William Shaw, William Propelling soats, rowing. Tooking stove, coal, anthracite. Tooking stove, coal, anth		Dough breaking machine		
Shaw, Cliver H				
Shaw, Ralph. Shaw, Thomas.—see Loudon, J. Shaw, Thomas.—see Loudon, J. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Propelling boats, rowing. Shaw, William. Propelling boats, working mills, &c. The shaw, William. Shaw, William. Propelling boats, working mills, &c. The shaw, William F. Shaw, William F. Shaw, William F. Shaw, William H. Shaw, William H. Sheaffer, Christian. Cuder mill. Sheaffer, Christian. Churn. Sheedles, Richard W. Railroad, switches for, &c. Sheetlaw, Richard W. Shecut, William H. Life preserver, rendering chair, &c., buoyant. Sheck, Henry. Sheet, Henry. Sheet, Sheets, Henry. Sheet, Sheets, Henry. Sheet, Sheets, Henry. Sheeffield & Ingraham Sheffield, John. Sheffield, John. Sheffield, William E. Corn sheller. Sheffield, William E. Sheffield, William E. Corn sheller. Sheffield, William E. Corn sheller. Sheldon, Joh. Sheldon, Johniel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Shepard, Benjamin. Shepard, Benjamin. Shepard, Benjamin. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, William. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Milliam. Shepard, Sonnin, Rowins, Cotton. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Samuel. Shepherd, Samuel. Shepherd, Samuel. Shepherd, Samuel. Shepherd, Samuel. Shepherd, Samuel. Shepherd. Shepherd. Shepherd, Samuel. Shepherd, Samuel. Shepherd, Samuel. S			_	
Shaw, Thomas—see Loudon, J. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Cooking stove, coal, anthracite. Shaw, William. Propelling boats, rowing. Propelling boats, working mills, &c. Shaw, William. Propelling boats, working mills, &c. Shaw, William F. Shaw, William F. Shaw, William H. Boring posts, &c. 14 Sheaffer, Christian. Cider mill. Sheelde, Richard W. Sheetz, Hanry Sheeut, William H. Sheets, Henry Sheeut, W. H., and H. H. Day Plasters, cohesive. Sheets, Henry Sheetz, Isaac. Saw mill, sawing fellocs and other round stuff. Propelling steamboats, &c. 7 Sheffield John. Sheffield, John. Sheffield, William E. Corn sheller. Sheffield, William E. Corn sheller. Sheldon, Job. Sheldon, Daniel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, William, Tanning, bark of chestnut, &c. Sheldon, Samuel. Sheldon, William, Frederick Shepard, Benjamin. Shoepard, Benjamin. Shoepard, Benjamin. Shoepard, John. Shepard, William. Shepard, John. Shepard, John. Shepherd, Sand D. Baldwin. Tonguing, &c., boards. Shepherd, Cyrus. Loom, water. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Sand D. Baldwin. Shepherd, Cyrus. Shepherd, Sand D. Baldwin. Shepherd, Cyrus. Shepherd, Sand D. Baldwin. Shepherd, Cyrus. Shepherd, Sand D. Baldwin. Shepherd, Cyrus. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepherd, Sand D. Baldwin. Shepher			1	39
Shaw, William Stove, improvement in 5 In Shaw, William Stove, improvement in 5 In Shaw, William Shaw, William Propelling boats, rowing 7 7 7 7 7 8 8 8 8 9 8 9 1 9 1 1 1 1 1 1 1 1 1 1 1		2		_
Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William F. Shaw, William H. Shaw, William H. Shaw, William H. Shaw, William H. Shaw, William H. Shaw, William H. Shaw, William H. Shaw, William H. Shaw, William H. Shearer, Samuel Shelder, Adam. Sheckells, Richard W. Railroad, switches for, &c. Sheckut, William H. Life preserver, rendering chair, &c., buoyant. Shecut, William H. Life preserver, rendering chair, &c., buoyant. Shecut, William H. Life preserver, rendering chair, &c., buoyant. Shecut, William H. Sheet, Adam. Sheet, Adam. Sheet, Adam. Sheet, Aleny. Sheet, William H. Sheet, William H. Life preserver, rendering chair, &c., buoyant. Sheet, Sheet	Shaw, Thomas	Cooking stove	5	14
Shaw, William Shaw, William Shaw, William Shaw, William Shaw, William Propelling boats, rowing. Tooking stove, coal, anthracite. Took show, working mills, dec. Took shear. The shear stove, working mills, dec. Took shear. The shear stove, working mills, dec. Took shear. The shear stove, working mills, dec. Took shear. The shear stove. T	Shaw, William	Stove, improvement in		14
Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Shaw, William. Sheaffer, Christian. Cider mill. Sheaffer, Christian. Cider mill. Sheble, Adam. Churn. Sheckells, Richard W. Shecut, William. Sheckells, Richard W. Shecut, William. Sheckells, Richard W. Shecut, William. Sheckells, Richard W. Shecut, William. Sheckells, Richard W. Shecut, William. Sheckells, Richard W. Shecut, William. Sheckells, Richard W. Shecut, William. Shectied, William. Sheffield & Ingraham. Sheffield & Ingraham. Sheffield & Ingraham. Sheffield & Ingraham. Sheffield, John. Sheffield, William. Sheffield, William. Sheffield, William. Sheffield, William. Sheffield, William. Sheldon, Daniel. Sheldon, Daniel. Sheldon, Daniel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Leather, &c., pricking. Sheldon, Samuel. Leather, &c., pricking. Sheldon, William. Shepard, Benjamin. Shepard, Benjamin. Shepard, Joh. Shepard, Joh. Shepard, Joh. Shepard, Joh. Shepard, Joh. Shepard, Joh. Shepard, Samuel. Shepard, William. Shepard, William. Shepard, William. Shepard, Samuel. Shepard, Joh. Shepard, Shendon. Shep	Shaw, William	Hinges and tubes		1
Shaw, William W.—see Wilder, J. N. Shaw, William F.— Shay, William H.— Sheaffer, Christian. Sheaffer, Christian. Sheerer, Samuel. Sheekles, Richard W.— Sheekles, Richard W.— Sheekut, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheet, William H.— Sheeffield & Ingraham Propelling steamboats, &c.— Sheffield & Ingraham Propelling steamboats, &c.— The Sheeffield Anniel Corn sheller. Sheffield William E.— Sheffield, William E.— Sheeffield, Samuel. Sheldon, Daniel.— Sheefdon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Leather, &c., pricking. Sheldon, Samuel.	Shaw, William			11
Shaw, W.—see Wilder, J. N. Shaw, William F. Shay, William H. Sheaffer, Christian. Sheckells, Richard W. Shecke				16
Shaw, William F. Shay, William H. Sheaffer, Christian. Shearer, Samuel. Shebele, Adam. Sheckells, Richard W. Sheckells, Richard W. Shecut, William H. Sheckells, Richard W. Shecut, William H. Sheckells, Richard W. Shecut, W. H., and H. H. Day Shect, Parke. Paper trimming machine. Saddle, spring. Saddle, spring. Sheffield & Ingraham Propelling steamboats, &c. Sheffield & Ingraham Sheffield, John. Sheffield, William E. Sheffield, William E. Sheffield, William E. Sheffield, William E. Sheffield, Oliver. Sheldon, Daniel. Sheldon, Daniel. Sheldon, Oliver. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, William Tanning, bark of chestnut, &c. Sheldon, William Sheldon, William Tanning, she of chestnut, &c. Shepard, Benjamin. Stoves, colking, and air heating. Shepard, Benjamin. Shepard, Benjamin. Shepard, Benjamin. Shepard, Jos. H. Shepard, Jos. H. Shepard, Jos. H. Shepard, Martin H. Shephard, Jos. H. Shephard, Jos. H. Shephard, Jos. H. Shephard, Jos. H. Shephard, Jos. H. Shephard, Jos. H. Shephard, S., and D. Baldwin. Shephard, S		Propelling boats, working mile, &c	7	17
Shay, William H. Sheaffer, Christian. Shearer, Samuel. Sheekells, Richard W. Sheekells,	Shaw, W.—see Wilder, J. N.	Campa annual canonaima da	5	19
Sheafer, Christian. Cider mill. Sheble, Adam. Sheckels, Richard W. Shecut, William H. Shecut, W. H., and H. H. Day Shect, W. H., and H. H. Day Sheet, Paper trimming machine. Sheets, Henry. Sheets, Henry. Sheffield & Ingraham Sheffield John. Sheffield, John. Sheffield, John. Sheffield, William E. Sheffield, William E. Sheffield, William E. Sheffield, John. Sheffield, Oliver. Sheldon, Daniel. Sheldon, Oliver. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Leather, &c., pricking. Sheldon, Samuel. Leather, &c., pricking. Sheldon, Samuel. Leather, &c., pricking. Sheldon, William B. Sheldon, William B. Sheldon, Samuel. Sheldon, Samuel. Leather, &c., pricking. Sheldon, Samuel. Leather, &c., pricking. Sheldon, Samuel. Leather, &c., pricking. Sheldon, William. Sheldon, William. Sheldon, William. Sheldon, William. Sheldon, William. Sheldon, William. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, William. Sheldon, Samuel. Sheldon, Samuel. Leather, &c., pricking. Sheldon, Samuel. Leather, &c., pricking. Sheldon, Samuel. Sheldon, Samuel. Sheldon, William. Shepard, Benjamin. Stoves, cooking, and air heating. Sheldon, William. Shepard, John. Plough, cast iron, &c. Shepard, John. Plough, cast iron, &c. Shepard, John. Shepard, John. Shepard, John. Shepard, John. Shepard, William. Water wheel. Shepard, William. Water wheel. Shepard, William. Water wheel. Shepard, William. Water wheel. Shepard, William. Water wheel. Shepard, William. Water wheel. Shepherd, S., and D. Baldwin. Tonguing, &c., boards. Samuel. Shepherd, Cyrus. Shepherd, S., and D. Baldwin. Tonguing, &c., boards. Samuel. Samuel. Shepherd, S., and D. Baldwin. Tonguing, &c., boards. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel. Samuel.	Shaw William H			
Shearer, Samuel				
Sheeble, Adam. Sheckells, Richard W. Shecut, William H. Shecut, William H. Shecut, W. H., and H. H. Day Sheets, Henry. Sheets, Henry. Sheets, Isaac. Sheeffield & Ingraham. Sheeffield & Ingraham. Sheeffield, John. Sheeffield, William E. Sheeffield, William E. Sheeffield, William E. Sheeffold, Daniel. Sheedon, Job. Sheedon, Job. Sheedon, Job. Sheedon, Samuel. Sheedon, William, jr Sheedon, William, jr Sheedon, William, jr Sheedon, William, jr Sheedon, William, jr Sheedon, William, jr Sheedon, William, jr Sheedon, William, jr Sheedon, Samuel. Sheedon, William, jr Sheedon, William, jr Sheedon, William, jr Sheedon, Samuel. Sheedon, William, jr Sheedon, William, jr Sheedon, William, jr Sheedon, William, jr Sheedon, Samuel. Stoves, cooking, and air heating. Sheedon, Sheedo				1
Sheckells, Richard W. Shecut, William H. Shecut, William H. Shecut, W. H., and H. H. Day. Sheets, Henry. Sheets, Life preserver, rendering chair, &c., buoyant. Plasters, cohesive. Paper trimming machine. Saddle, spring. Saddle, spring. Sheets, Lisaar. Sheeffield & Ingraham. Sheeffield & Ingraham. Sheeffield, John. Sheeffield, John. Sheeffield, William E. Sheeffield, William E. Sheeffield, William E. Sheeffield, William E. Sheeffield, William E. Sheefdon, Job. Sheeddon, Oliver. Sheeddon, Oliver. Sheeddon, Oliver. Sheeddon, Samuel. Sheeddon, Samuel. Sheeddon, Samuel. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Sheeddon, William, ir Sheeddon, William, ir Sheeddon, William, ir Sheeddon, Frederick Sheeddon, Frederick Sheeddon, Frederick Sheepard, Benjamin. Sheepard, Benjamin. Sheepard, John. Sheepard, John. Sheepard, John. Sheepard, John. Sheepard, John. Sheepard, William. Sheepard, John. Sheepard, William. Sheepard, John. Sheepard, John. Sheepard, William. Sh			1	5
Shecut, William H. Shecut, W. H., and H. H. Day Shecut, W. H., and H. H. Day Sheets, Parke. Sheets, Henry. Sheets, Henry. Sheets, Isaac Saw mill, sawing felloes and other round stuff. Propelling steamboats, &c. Sawing boards, setting logs for. 14 Sheffield & Ingraham Sheffield, John. Sheffield, John. Sheffield, William E. Sheffield, Win E. Sheffield, Win E. Sheffield, Win E. Sheffield, Onical Sheffield, Win E. Sheldon, Daniel. Churn. Sheddon, Job. Steam engine. Sheldon, Oliver Sheldon, Philo G. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Leather, &c., pricking. Leather, &c., pricking. Sheldon, William. Sheldon, William. Sheldon, William. Sheldon, William, jr. Sheldon, William, jr. Sheldon, Samuel. Sheldon, William, jr. Sheldon, Samuel. Sheldon, Samuel. Sheldon, William, jr. Sheldon, Samuel. Sheldon, William, jr. Sheldon, Samuel. Sheldon, Samuel. Leather, &c., pricking. Leather, stitching. Sheldon, William, jr. Sheldon, William, jr. Sheldon, William, jr. Sheldon, William, jr. Sheldon, Samuel. Shepard, Benjamin. Stoves, cooking, and air heating. Shepard, Benjamin. Stoves, colking, and air heating. Shepard, Josh. Shepard, Josh. Shepard, Josh. Shepard, Josh. Shepard, William. Shepard, S, and D. Baldwin. Shepard, So, boards. Shepard, So, boards. Shepard, & D. Baldwin. Shepard, & D. Baldwin. Shepard, So, boards. Shepard, & D. Baldwin. Shepard, So, and D. Baldwin. Shepard, So, and D. Baldwin. Shepard, So, and D. Baldwin. Shepard, So, and D. Baldwin. Shepard, So, and D. Baldwin. Shepard, So, and D	Sheckells, Richard W		9	133
Shecut, W. H., and H. H. Day Sheet, Parke. Sheets, Henry. Sheets, Henry. Sheets, Henry. Sheets, Isaac Sheffield & Ingraham Sheffield & Ingraham Sheffield, John. Sheffield, Thomas. Sheffield, Thomas. Sheffield, William E. Sheffield, William E. Sheffield, William E. Sheffold, Daniel. Sheldon, Daniel. Sheldon, Daniel. Sheldon, Daniel. Sheldon, Philo G. Sheldon, Philo G. Sheldon, Samuel. Sheldon, S	Shecut, William H.		_ 1	
Sheets, Henry Saddle, spring Saddle, spring Sheetz, Isaac Saw mill, sawing felloes and other round stuff. Sheffield & Ingraham Propelling steamboats, &c. 7 15 15 15 15 15 15 15 16 15 16 15 15 16 15 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16			- 1	
Sheets, Henry				114
Saw mill, sawing felloes and other round stuff			1	
Sheffield & Ingraham Propelling steamboats, &c. 14 Sheffield, John. Sawing boards, setting logs for. 14 Sheffield, Thomas. Raising vessels by slirding ways. 7 Sheffield, William E. Corn sheller. 1 Sheffield, William E. Corn sheller. 1 Sheldon, Daniel. Churn. 1 Sheldon, Job. Steam engine. 6 Sheldon, Oliver. Staves, cutting. 14 Sheldon, Samuel. Grist mill, conical. 13 Sheldon, Samuel. Leather, &c., pricking. 16 Sheldon, Samuel. Leather, &c., pricking. 16 Sheldon, William Tanning, bark of chestnut, &c. 16 Sheldon, William, jr Slates, application to various uses 15 Sheldon, William, Stoves, culinary and air heating. 5 Shepard, Benjamin. Stoves, colinary and air heating. 5 Shepard, John. Plough, cast iron, &c. 1 Shepard, John. Plough, cast iron, &c. 1 Shepard, William Stoves, cooking, and air heating. 5 Shepard, John. Plough, cast iron, &c. 1 Shepard, William Stoves, cooking and sir heating. 5 Shepard, William Stoves, cooking and sir heating. 5 Shepard, William Shepard, William Raim Stoves, cooking and sir heating. 5 Shepard, William Shepard, William Shepard, William Raim Stoves, cooking 5 Shepard, William Raim Stoves, cooking 5 Shepard, William Raim Stoves, cooking 5 Shepard, William Raim Stoves, cooking 5 Shepard, William Raim Stoves, cooking 5 Shepard, William Raim Raim Raim Raim Raim Raim Raim R			10	233
Sheffield & Ingraham Propelling steamboats, &c. 7 Sheffield John Sawing boards, setting logs for. 14 Sheffield William E. Corn sheller. 1 Sheffield Wm. E. Wheels, felloes, sawing, &c. 10 Sheldon, Daniel Churn 6 Sheldon, Oliver Stawes, cutting 14 Sheldon, Philo G Sheldon, Samuel Grist mill, conical 15 Sheldon, Samuel Leather, &c., pricking 16 Sheldon, Samuel Leather, &c., pricking 16 Sheldon, William Transing, bark of chestnut, &c. 16 Sheldon, William Shepard, Benjamin Stoves, colinary and air heating 5 Sheldon, Sheldon, Sheldon, Sheldon, William Shepard, John Shepard, John Shepard, John Shepard, John Shepard, John Shepard, John Shepard, William A Stoves, cooking 11 Shepard, William A Stoves, cooking 11 Shepard, William A Stoves, cooking 11 Shepard, William A Stoves, cooking 11 Shepard, William A Stoves, cooking 11 Shepard, William A Stoves, cooking 11 Shepard, William A Stoves, cooking 11 Shepard, William A Stoves, cooking 11 Shepard, William A Stoves, cooking 11 Shepard, William A Stoves, cooking 11 Shepard & Dean Soinning, roping, cotton 11 Shepard & Dean Soinning, roping, cotton 11 Shepard & Dean Soinning, roping, cotton 11	Sneetz, Isaac		14	911
Sheffield, John Sheffield, Thomas Sheffield, William E Sheffield, Wm E Sheffield, Wm E Sheffield, Wm E Sheldon, Daniel Sheldon, Daniel Sheldon, Job Sheldon, Job Sheldon, Philo G Sheldon, Samuel Sheldon, Sh	Shaffield & Ingraham			
Sheffield, Thomas. Sheffield, William E. Sheffield, William E. Sheffield, William E. Sheffield, William E. Sheffield, William E. Shefloor, Daniel. Sheldon, Daniel. Sheldon, Daniel. Sheldon, Philo G. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Sheldon, William Sheldon, William Sheldon, William Sheldon, William Sheldon, William Shepard, Benjamin Shepard, Benjamin Shepard, John Shepard, William Shepard, William Shepard, William Shepard, William Shepard, William Shepard, Sperty Shepard, Sperty Shepard, Sperty Shepard, Sperty Shephe			1	
Sheffield, William E. Corn sheller. 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				
Sheldon, Job. Sheldon, Oliver Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Samuel Sheldon, Sumuel Sheldon, William Sheldon, William Sheldon, William Sheldon, William Sheldon, William Shepard Sheldon, Samuel Sheldon, William Shepard Sheldon, William Shepard Sheldon, William Shepard				.8
Sheldon, Daniel			10	214
Sheldon, Oliver Slaves, cutting Sheldon, Philo G Spinning and twisting straw, &c. 3 Sheldon, Samuel. Grist mill, conical. 13 Sheldon, Samuel. Leather, &c., pricking 16 Sheldon, Samuel. Leather, &c., pricking 16 Sheldon, Samuel. Leather, &c., pricking 16 Sheldon, William Tanning, bark of chestnut, &c. 16 Sheldon, William Sheldon, William Sheldon, William Sheldon, William Sheldon, William Sheldon, William Shepard Benjamin Stoves, culinary and air heating 5 Shepard Benjamin Stoves, cooking, and air heating 5 Shepard Benjamin Stoves, cooking, and air heating 5 Shepard John Plough, cast iron, &c. 11 Shepard Jos H Churn Fireplace 5 Shepard Levi Fireplace 5 Shepard, William A Stoves, cooking 5 Shepard, William A Stoves, cooking 5 Shepard, William A Stoves, cooking 5 Shepard, William A Stoves, cooking 5 Shepard, William A Stoves, cooking 5 Shepard William A Stoves, cooking 5 Shepard William A Stoves, cooking 5 Shepard William A Stoves, cooking 5 Shepard William A Stoves, cooking 5 Shepard William A Stoves, cooking 5 Shepard Cyrus 14 Shepherd & Dean Spinning roping cotton 3 Shepherd & Dean Spinn	Sheldon, Daniel		1	. 2
Sheldon, Philo G. Spinning and twisting straw, &c 3 Sheldon, Samuel. Grist mill, conical. 16 Sheldon, Samuel. Leather, &c., pricking. 16 Sheldon, Samuel. Leather, &c., pricking. 16 Sheldon, Samuel. Leather, &c., pricking. 16 Sheldon, Samuel. Leather, &c., pricking. 16 Sheldon, Samuel. Leather, &c., pricking. 16 Sheldon, William. Tanning, bark of chestnut, &c 16 Sheldon, William. Tanning, bark of chestnut, &c 16 Sheldon, Frederick Carryall. 10 Shepard, Benjamin. Stoves, culinary and air heating. 15 Shepard, Benjamin. Stoves, cooking, and air heating. 18 Shepard, Benjamin. Stoves, cooking, and air heating. 19 Shepard, Jos. H. Churn. 1 Shepard, Levi. Fireplace. 15 Shepard, William. Water wheel. 15 Shepard, William A. Stoves, cooking 15 Shepard, William A. Stoves, cooking 15 Shepard, Shepard, Shepard, Shepherd, Cyrus. 14 Shepherd, Cyrus. 15 Shepherd, Cyrus. 16 Spinning, roping, cotton 17 Spinning, roping, cotton 18 Spinning, roping, cotto	Sheldon, Job.	Steam engine		
Sheldon, Samuel. Sheldon, Samuel. Sheldon, Samuel. Leather, &c., pricking. Leather, &c., pricking. Sheldon, Samuel. Leather, &c., pricking. Sheldon, Samuel. Leather, &c., pricking. Sheldon, William. Tanning, bark of chestnut, &c. Sheldon, William, jr. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, William, jp. Sheldon, jp. She	Sheldon, Oliver	Staves, cutting		
Sheldon, Samuel. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Leather, &c., pricking. Stocks, pricking.				
Sheldon, Samuel. Leather, &cc., pricking. Leather, &cc., pricking. Leather, stitching. Tanning, bark of chestnut, &c. Sheldon, William, jr. Sheldon, William, jr. Sheldon, Frederick Carryall. Stoves, cooking, and air heating. Shepard, Benjamin. Stoves, cooking, and air heating. Shepard, John. Plough, cast iron, &c. Shepard, Levi. Shepard, Levi. Shepard, William. Shepard, William. Shepard, William. Water wheel. Shepard, William A. Shepard, Shepard, Shepard, Shepard, William A. Shepard, Shepa	Sheldon, Samuel			
Sheldon, Samuel. Sheldon, William Sheldon, William, jr Sheldon, William, jr Shelton, Frederick Shelton, Frederick Shelton, Frederick Shelton, Frederick Shepard, Benjamin Stoves, culinary and air heating Stoves, cooking, and air heating Stoppard, John Shepard, John Shepard, John Shepard, Levi Shepard, Levi Shepard, William Shepard, William Shepard, William Shepard, William Shepard, William Shepard, William Shepard, William Shepard, William Shepard, Shep	Shelden Samuel		= -	98
Sheldon, William Tanning, bark of chestnut, &c 16 Sheldon, William, jr Slates, application to various uses 15 Sheldon, Frederick Carryall 10 Shepard, Benjamin Stoves, culinary and air heating 5 Shepard, Benjamin Stoves, cooking, and air heating 5 Shepard, John Plough, cast iron, &c 11 Shepard, John Churn 1 5 Shepard, Levi Fireplace 5 Shepard, Martin H Bags, for separating clain from stearin by pressure 15 Shepard, William A Stoves, cooking 15 Shepard, William A Stoves, cooking 15 Shepard, William A Stoves, cooking 15 Shepard, Sh	Sheldon Samuel			258
Sheldon, William, jr. Slates, application to various uses 15 Sheldon, Frederick Carryall 10 Shepard, Benjamin Stoves, culinary and air heating 5 Shepard, Benjamin Stoves, cooking, and air heating 5 Shepard, Benjamin Stoves, cooking, and air heating 5 Shepard, John Plough, cast iron, &c. 1 Shepard, John Plough, cast iron, &c. 1 Shepard, Levi Frielace 5 Shepard, Martin H Bags, for separating elain from stearin by pressure 3 Shepard, William A Stoves, cooking 5 Shepard, William A Stoves, cooking 5 Shepard, Shepherd, S, and D. Baldwin Tonguing, &c., boards 14 Shepherd, Cyrus 10 Shepherd, Cyrus 11 Shepherd & Dean 11 Shepherd, Soinning, roping, cotton 11 Shepherd & Dean 11 Stoves, coping, cotton 15 Shepherd & Dean 11 Shepherd, Soinning, roping, cotton 15 Shepherd & Dean 11 Stoves, coping, cotton 15 Shepherd & Dean 15 Shepherd, Spinning, roping, cotton 15 Shepherd & Dean 15 Shepher	Sheldon, William			301
Shepard, Benjamin	Sheldon, William ir			250
Stoves, culinary and air heating. Shepard, Benjamin. Stoves, cooking, and air heating. Stoves, cooking, and air heatin	Shelton, Frederick			995
Shepard, Benjamin. Shepard, Benjamin. Shepard, Benjamin. Shepard, Benjamin. Shepard, John. Shepard, John. Shepard, Jos. H. Shepard, Levi. Shepard, Martin H. Shepard, William. Shepard, William. Shepard, William A. Shepard, William A. Shepard, Shepardson & Sperty. Lathe, turning rake and hoe handles. Tonguing, &c., boards. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd,			5	
Shepard, Benjamin. Stoves, improvement in air heating. Plough, cast iron, &c. Churn. Shepard, Levi. Shepard, Martin H. Shepard, William. Shepard, William A. Shepard, William A. Shepard, S, and D. Baldwin. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd, Cyrus. Shepherd & Dean. Stoves, improvement in air heating. Plough, cast iron, &c. Streplace. Bags, for separating elain from stearin by pressure. Water wheel. Lathe, turning rake and hoe handles. Tonguing, &c., boards. Loom, water. Shepherd & Dean. Soinning, roping, cotton.			5	
Shephard, John. Shephard, Jos. H. Shepard, Levi. Shepard, Martin H. Shephard, William. Shephard, William A. Shephard, William A. Shephard, S, and D. Baldwin. Shephard, S. and D. Baldwin. Shephard, Cyrus. Shephard & Dean. Soinning, roping, cotton.	Shepard, Benjamin		5	
Shepard, Jos. H. Churn. Shepard, Levi. Fireplace. Shepard, Martin H. Bags, for separating clain from stearin by pressure. 3 Shepard, William A. Stoves, cooking 5 Shepard on & Sperty Lathe, turning rake and hoe handles. 14 Shepherd, S., and D. Baldwin. Tonguing, &c., boards. 14 Shepherd, Cyrus. Loom, water. 3 Shepherd & Dean, Spinning, roping, cotton 3	Shephard, John		1	Ø
Shepard, Martin H	Shepard, Jos. H	Churn		1982
Shepard, William. Shepard, William. Shepard, William A. Shepardson & Sperty. Shepherd, S., and D. Baldwin. Shepherd, C. yrus. Shepherd & Dean. Solven, coping, cotton. Bags, for separating clain from stearin by pressure. 11 Stoves, cooking. Lathe, turning rake and hoe handles. 14 Tonguing, &c., boards. 15 Shepherd & Dean. Solinning, roping, cotton. 3 11	Snepard, Levi	Fireplace	٥	
Shepard, William A	Snepard, Marun H.	Bags, for separating clain from stearin	.	K I
Shepard, William A	Shapard William	by pressure		
	Shenard William A			
	Shepardson & Sports			90
	Shepherd, S., and D. Raldwin			#
	Shepherd, Cyrus	Loom, water.		1
Shepherd, Forrest Preserving wood from decay 4	Shepherd & Dean.,	Spinning, roping, cotton		JI.
	Shepherd, Forrest	Preserving wood from decay	4	114

PATR ICARIA ,	thaentions or discoassiss.	CLASS.	PAGE.
Shapherd, Isaac	Butter making	1	4
epherd Nathan	Ointment (improvement on Judkin's).	4	111
hepherd Nathan	Moulds for casting butt hinges	2	51
Shepherd, T.—see Carr, W. H. Shepherd & Thorp	Loom, power, upright	3	· 81
Shepherdson, Daniel	Tire, bending hoops and bands	10	211
Sheppard, Caleb	Boiling	5	123
Sheppard, Forest	Paint, composition, metallic, &c	4	113
Sheppard, Forest	Paint, white, water color	4	113
Sherard, John H	Gin cotton—see gin for ginning cotton	3	76
Sherbette, John	Knapsacks, military	19	335
Sherer & Killian	Distilling apparatus, &c	14	105 297
Sherfy, John	Harness trace, &c., &c	16	257 113
Sherman, Amos	Saccharine, &c., vinous fermentation. Tailoring, system of	21.	354
Sherman, Anson	Printing press	18	328
Shermer, Anthony	Car, railroad, turning, &c	10	207
Sherman, Elisha	Scows and boats	7	177
Sherman, Levi	Saddles	16	299
Sherman, Thomas H	Pitch, composition	4	113
Sherman, Thomas H	Potash, manufacturing	4	114
Sherman, Thomas S	Brick, fire-proof and water	15	285
Sherman, Roger M	Steam engine, rotary	6	161
Sherman, Roger M	Steam engine, rotary	6 5	160 127
Sherman, Roger M	Fireplace and grate, open	ĭ	36
Shermerhorn, C	Cooking stove, coal, Lehigh	5	142
Sherr, E. N	Guitar	18	322
Sherwood, Andrew	Cooking stove, kitchen	5	143
Sherwood, Andrew	Cooking stove, drum	5	143
Sherwood, Augustus	Winding spools and bobbins	3	95
Sherwood, Benjamin	Fire-proof safe	2	43
Sherwood, Gilbert	Crane	12	240
Sherwood, John PSherwood, John P	Lock, door	2 2	49 48
Sherwood, Stephen A	Straw cutter	î	25 25
Sherwood, William	Carpets, weaving	3	≅
Sherwood, WilliamSherwood, William	Loom, ingrain carpet	3	80
Sherwood, William	Carpet, ingrain, &c	3	69
Shetter, George	Auger, serpentine, screw	34	265
Shetter, George	Auger, serpentine	14	265
Shilliday & McGaston	Spinning and reeling	3	91
Shimer—see Keagy.	Wulling size cleaning		14
	Hulling rice, cleaning Distilling from grain	1	14 105
Shively, H., R. S. McEwen, and J. Lind-	Distance From Branes	- 1	100,
	Washing machine	17	315
	Churn	1	6
	Picking and breaking wool	3	86
	Carriage, disengaging from	10	206
Shoavler, Emanuel	Press, tobacco, flattener	12	245
Shoemaker, Daniel	Extinguisher and chimney regulator.	5	196
Sholes, Charles	Evaporating liquids	4	108
Sholtz, J. G.	Bee hives	3	95
Shomacker—see Bossert.	opiniong, apinaro, proventing, acc	١	
	Loom	3	80
	Boilers, steam, preventing from burst-	_	
	ing	6	153
Short & Bradford	Explorer, submarine	7	170
Short, Sewall	Ovens, rail-way	5	134
on	Grubs and bushes, extracting	3	13

PATENTESS.	INVENTIONS OR DISCOVERISE.	CLASS.	PAGE.
Shetwell & Kinder	Hair cloth	3	7
Shotwell, Wm	Wheels, boxes, for wood, &c	10	21
Shotwell, Wm	Pulleys for cogs	13	90
Shove & Hunt	Tanning, manufacturing hides	16	30
Showerman, Timothy	Cider mill	13	251 252
Showerman, Timothy	Horse power	13	33 5
Schader, Jno. H	Screws, cutting, endless	9	200
Shreve, Henry M	Snags, removing, &c Boilers, steam	6	151
Shriver, David	Hoops, shaving out of split timber	14	268
Shriver, Thomas	Coaches, &c	io l	209
Shryock, G., and S. Underwood	Furnaces for steam boilers	6	154
Stuart, W. G	Plough	1	16
Shuff, N. J.	Cultivator, or hoe harrow	1	10
Shugert, John	Tew iron	2	61
Shugert, John	Washing machine	17	317
Shugert, John	Gudgeons, &c., self acting box for	13	25(68
Shugert, John	Tuyere iron, blacksmiths'	2 2	56
Shugert, JohnShugert, John	Punching copper, &c	3	85
Shugert, John	Paper cutting machineGrooving and planing bit	14	268
Shull, John	Washing machine	17	316
Shultz, Gotlieb	Disengaging horses in navigating, &c.	7	170
Shultz, Henry	Plough	i	16
Shultz, John N	Bleaching, beeswax, yellow	4	100
Shultz & Truel	Lamps, construction of	5	132
Shultz, William	Excavator, mud machine	9	196
Shultz, William	Hydraulic machine	11	223
Shultz, William	Pumps	11	234
Shultz, William	Telegraph	9	200 152
Shultz, WilliamShultz, William	Boilers, steam engine	6	155
Shultz, William	Cordage, laying, &c	2	76
Shultz, William	Propelling by hydraulic, &c	7	173
Shumard, Francis	Saw, circular, for cutting laths	14	273
Schumway, Horace J	Cistern water, vaults, &c	11	220
Shuneman, William	Fireplace	5	126
Shurley, Thomas	Condenser and heater for, &c	4	105
Shute, James G	Vests, stiffener, spring for	21	354
Shute, Thomas	Water wheel for saw mills	11	234
Sibley, Alden	Calico, &c., printing	3	67 293
Sibley, Jer	Steam engine, connecting cylinder and	16	233
Dionois, Flourica Ed.	chest	6	158
Sickels, Frederick E	Steam engine, connecting cranks of	6	158
Sickels, Frederick E.	Steam engine, cut-off valves	6	158
Sickels, Frederick E.	Steam engine, valves, opening and	- 1	
200 LT (40°C)	closing	6	169
Sickels, Frederick E.	Steam engine, opening and closing the		
	valves of	6	169
Sickels, F. C	Valves, apparatus for lifting and regu-	- 1	
BEC 1 (1) (1)	lating the closing of the valves of		100
Sielede Conned	steam engines	6	163
Sickels, Gerard Sickels, Gerard	Reel for chalk lines	. = 1	87 218
Sickels, Gerard—see Griswold.	Cot, or cross-bedstead soft	17	310
Siddall, Thomas	Loom	3	80
Siddall, Thomas	Loom, warping.	3	83
Sides, Henry C	Brakes for railroad cut, &c	10	206
Sillibridge, G. R	Stock, composition hinge	21	353
Silliman, Henry	Straw cutting	1	26
Silliman Isaac	Propelling, sculling boats by steam	7	175
Silliman, Levi	Chimneys, preventing smoking	5	195
Silliman, Levi	Steam, generating	6 ¹	162

PATENTHEN.	ENVENTIONS OR DESCOVERERS.	CLASS.	PAGE.
Silliman, Samuel	Washing machine, vibrating	17	24
Silsbee, John	Furnace, heated air to	5	198
Silver, J. S	Stove, cooking	5	143
Sim, William	Vice, jaws of	2	63
Simmons, Benjamin	Spinning wheel, linen	3	98
Simmons, D. C., and C. Raguet, adminis-	-		
trator of James Simmons	Pressing hay and binding	12	245
Simmons, James S	Whipper, cotton, cylindrical	3	95
Simmons & Riondell	Saturating water with carbonic acid		
- •	gas, &c Mineral water, saturating with fixed	4	116
Simmons & Rundell			
	_ dir	4	111
Simmons, Samuel	Cradle and chair rockers	17	311
Simmons, Seth	Spinning, throstle, frame, &c	.3	93
Simonds, Abel	Scythes, manufacturing	2	59
Simonds, Abel, and Albert G. Page	Scythes, turning, &c., the heel	2	59
Simonde, Benjamin, jr	Ovens, flue, door	1	. 34
Simonds, Benjamin, jr	Cooking stove, &c	5	144
Simonds & McJames	Cotton, cleaning	3	71
Simons, George W	Pencil cases, design	18	324
Simons, M. P., assignee of Warren		•	200
Thompson	Daguerreotype pictures, coloring	18	329
Simons—see Stockman and Hopper.	TTbP	01	354
Simpson, Edwin L	Umbrella, water proof	21	285
Simpson, John	Bricks, machine for making	15	358
Simpson, John	Pulleys, improvement in	22	
Simpson, John R	Sacking bottom, mode of tightening	17	313
Simpson, Joseph	Distilling	4	104
Simpson, Joseph P	Stoves	5	13 6 95
Simpson, Michael H	Wool, cleaning	3	353
Simpson, M. H	Straps for pantaloons	21 13	258
Simpson, William	Locomotive wheels, mode of removing,	13	200
	&c	6	154
Sinclair, John	Saw mill, block head for	14	275
Singer, Isaac M	Drilling rocks	9	194
Singleton, William Y	Hemp and flax, dressing	3	79
Singleton, William Y	Cements, water proof	4	102
Singleton, William Y	Excavating, ditching and embanking.	9	194
Singleton, William Y	Hommony, machine for making	13	255
Sinton, John M	Truss for hernia	- 20	· 344
Sipperly, David N	Garments, cutting	21	351
Siter, Edward	Tanning hides	16	302
Sites, John	Brick press	15	286
Sitton & Black	Lathe, wheelwright's felloe	14	269
Sitton, John	Wheelwright's assistant	10	215
Sizer, Amasa	Coffee mill and spice mill	13	250
Sizer, A., and George	Gridiron and spider	5	130
Sizer, George W. & H	Stove, double oven, air tight, design	5	144
Sizer, George W. & H	Stove, double oven, air tight, design	5	144
Sizer, Jonas and Rozanna	Loom, weaving feathered cloth	3	88
Sizer, Jonathan	Hats, by steam, &c	3	.78
Sizer, Jona	Boiler, circular	5	193
Sizer, Jonathan, 2d.	Harpoon	7	170
Sizer, J., administrator of Z. Waterhouse	Coffee mill	13	256
Sizer, Samuel D	An arus, swearing, we., macamery for,	19	335
Skidmore, Thomas	Roilers steam engine		159
Skidmore, Thomas.	Boilers, steam engine	6	158
Skiff, G. F.—see Engelbrecht, T. F.	Steam engine, condenser for	•	100
	Thrashing machine	1	29
	Cooking stoves, (design)	5	141
Skinner & Bean, in Class. Bean & Skinner	Fireplace	5	196
Skinner, Charles W	Ventilating vessels	7	178

PATRI FURIO +	MARMAIONS OF DISCOARTING	CLASS.	PAGE.
Meinner, Flijah	Water wheel, screw	. 11	204
kinner, Elijah	Baking iron	5	19
kinner, Elijah	Chimneys, draught in	5	12
kinner, Elijah	Cooking stove	5 5	17
krinner, Elijah Skinner, Elijah	Fenders, fireplaces	5	192
kinner. Elijah	Mantels for fireplaces	5	ĨĬ
kinner, Elijah	Knobs, glass, commode	2	40
kinner, Elijah	Locks, saving, for drawers	2	50
kinner, Elijah	Paint mill	13	250
Skinner, Ez	Balance, scale, preponderating	12	2 36. 195
kinner, khabod L kinner, Joseph	Veneers, cutting	14	289
kinner, Joseph	Steam, applying	6	155
kinner and Read	Straw cutter	1	96
kinner, Richard	Horse power	13	256
kinner—see Tilt.	l_ , · .		
kinner and Tooker	Earth, removing	9	196
Rkinner and Webster	Mill, vertical lathe	13	258 11 3
Krinner and Webster	Paint, composition, stone	14	268
Made, Caleb	Stoves and grates, boilers, &c	5	145
llade, Henry	Stove for heating rooms	5	145
Rack, Isaac	Axletree, revolving	10	205
Mane, P. F	Lamps, (design)	5	134
Rane, P. F., and John Golding	Lamps	5	134
later, Jos. K., and S. G. Pratt	Harness, horse, hames	16	297
Nater and Noblit	Corn, grinding and shelling, &c	13	251 26
Mater, Samuel	Thrashing and winnowing machine.	3	23
Rater, William		2	54
Maughter, James	Chimneys, cleaning	5	194
Slayton, Harvey	Fulling and scouring, &c	3	74
Payton, Phineas	Wheel hubs and axletrees	10	214
Rayton, Phineas	Hoops, sawing	14	268
Resper, John R		13	253 254
Reeper, John R	Horse power, locomotive	13 21	354
Micer, William	Axles and thorough boxes, &c	10	205
Rifer, Ezra	Carriages, retarding, &c	10	200
Ringerland, Benjamin—see Phenix Man-	, , , , , , , , , , , , , , , , , , , ,		
ufacturing Company.			
Roan, James A.—see Brooks.	9		~
Moan, Thomas J	Screws, wood, cutting threads of	2	58 58
Sloan, Thomas J	Screws, wood	21	353
Moat, Jacob	Screws, cutting	2	57
Noat, Jacob		3	71
Sloat and Springsteen	Screws, cutting wood	2	58
locum, James—see Allen, W. H.			
Mocum, Joseph	Press, cotton	12	213
Normand Spensor	Pins, sticking into paper, &c	2 1	55 39
Nover and Sperry	Thrashing machine	16	213
Imali, John P	Corn shelling.	ř	~3
Small. William	Plough	1	18
mall, William	Thrashing machine	1	29
mall, William	Thrashing machine	1	29
imaliman. James	Pumus, air and water, double	11	225
CONSTRUCTOR TOPOGO	Pump, air, double, for, &c.	6 [154
Smallman, James	Charm amount doubt		
maliman and Koosevelt	Steam emgine, double	6	158
maliman and Roosevelt	Steam eagine, double		

DEPEK.

Smelzer, John	PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
Smetter, John	Smalley Toffers	Briek nwegg	15	28
Smether, Robert. Harness, bridles. 16 Smith, Aaron. Plough, 1 Smith, Aaron. Plough, 1 Smith, Aaron. Plough, 1 Smith, Aaron. Churn. 1 Smith, Abel. Nails, manufacturing. 2 Smith, Abel. Stoves, coal. 5 Smith, Abel. Stoves, coal. 5 Smith, Abel. Stoves, coal. 5 Smith, Alonzo L. Thrashing and shelling corn, &c. 1 Smith, Alonzo L. Thrashing machine. 1 Smith, Alonzo L. Thrashing machine. 1 Smith, Alonzo L. Mineral water, soda apparatus. 4 Smith, Adonzo L. Mineral water, soda apparatus. 4 Smith, Adonzo L. Mineral water, soda apparatus. 4 Smith, Adonzo L. Mineral water, soda apparatus. 4 Smith, And. P. Wheels, spokes, cutting tenons. 10 Smith, And. P. Wheels, spokes, cutting tenons. 10 Smith, Arch. Motion, rectilinear into rotary. 13 Smith, Arch. Motion, rectilinear into rotary. 13 Smith, Arch. Motion, rectilinear into rotary. 13 Smith, Berjamin. Seeding corn, &c. 1 Smith, Berjamin. Axes. 2 Smith, Berjamin. Axes. 2 Smith, Berjamin. Axes. 2 Smith, Benjamin. Axes. 2 Smith, Benjamin. Axes. 2 Smith, Benjamin. Axes. 2 Smith, Benjamin. Millen. 1 Smith, Benjamin. Millen. 1 Smith, Benjamin. Millen. 1 Smith, Benjamin. Millen. 1 Smith, Benjamin. 1 Smith, Daniel. 1 Smith, Daniel. 1 Smith, Daniel. 1 Smith, Daniel. 1 Smith, Daniel. 1 Smith, Daniel. 1 S				25
Smith Aaron				2
Smith Aaron Plough double 1				1
Smith Aron Churn 1 Smith Abel Nails manufacturing 2 Smith Abel Stoves coal 5 Smith Addison Magnetic fire alarm 8 Smith Addison Magnetic fire alarm 8 Smith Adonzo L Thrashing and shelling corn, &c. 1 Smith Alonzo L Thrashing machine 1 Smith Alonzo L Thrashing machine 1 Smith Alonzo L Mineral water, soda apparatus 4 Smith Amos F Veneers, sawing 14 Smith Amos F Veneers, sawing 14 Smith Amos F Veneers, sawing 16 Smith Anthony Hides, breaking and fleshing 16 Smith Arch Motion, rectilinear into rotary 13 Smith Arch Motion Seeding corn, &c. 1 Smith Avery Bedstead for the sick 17 Smith Avery Bedstead for the sick 17 Smith Bartholomew Smut machine 1 Smith Benjamin Lock door 2 Smith Benjamin Lock door 2 Smith Benjamin Engiami Lock door 2 Smith Benjamin M Smut machine 1 Smith Benjamin M Hemp and flax dressing and breaking 3 Smith Benjamin M Propelling boats 7 Smi				9
Smith, Abel. Nails, manufacturing. 2 Smith, Abiel Stoves, coal 5 Smith, Addison Magnetic fire alarm 8 Smith, Alonzo L Thrashing and shelling corn, &c. 1 Smith, Alonzo L Thrashing and shelling corn, &c. 1 Smith, Alonzo L Mineral water, soda apparatus 4 Smith, Adonzo L Mineral water, soda apparatus 4 Smith, And P Wheels, spokes, cutting tenons 10 Smith, Anthony Hides, breaking and fleshing 16 Smith, Arch Motion, rectilinear into rotary 13 Smith and Arnold Seeding corn, &c. 1 Smith, Arev. Bedstead for the sick 17 Smith, Bartholomew Feathers, dressing and purifying 17 Smith, Bartholomew Smith machine 17 Smith, Benjamin Axes 2 Smith, Benjamin Axes 2 Smith, Benjamin Fire arms 19 Smith, Benjamin Fire arms 19 Smith, Benjamin M Hemp and flax, dressing and breaking 3 Smith, Benjamin M Propelling boats 7 Smith, Benjamin M Propelling boats 7 Smith, Benjamin M Propelling boats 7 Smith, Benjamin M Propelling boats 7 Smith, Benjamin M Propelling boats 6 Smith, Benjamin M Propelling boats 6 Smith, Benjamin M Propelling boats 6 Smith, Burrows Coffee mill 13 Smith, Burrows Coffee mill 13 Smith, Burshord Baddles, elastic seat 16 Smith, Christopher Spectacles, construction of 8 Smith, Christopher Spectacles, construction of 8 Smith, Christopher Spectacles, construction of 8 Smith, Daniel Carding wool 3 Smith, Daniel Pump, labor æving 11 Smith, Daniel Pump, labor æving 11 Smith, Daniel Pump, labor æving 11 Smith, Daniel Pump, labor æving 11 Smith, Daniel Pump, labor æving 11 Smith, Daniel Pump, labor æving 12 Smith, Daniel Pump, labor æving 13 Smith, Daniel Pump, labor æving 14 Smith, Daniel Pump, labor æving 15 Smith, Daniel Pump, forcing, for fire engines 11 Smith, David Pressing mæthnes for preparing to become 12 Smith, David Pressing mæthnes for prepa				
Smith Addison Magnetic fire alarm Smith Addison Magnetic fire alarm Smith Adonzo L Thrashing and shelling corn, &c. 1 Smith Alonzo L Thrashing and shelling corn, &c. 1 Smith Alonzo L Thrashing machine 1 Smith Amos F Veneers, sawing 14 Smith Amos F Veneers, sawing 14 Smith And P Wheels, spokes, cutting tenons 10 Smith Anthony Hides, breaking and fleshing 16 Smith Anthony Hides, breaking and fleshing 16 Smith Anthony Hides, breaking and fleshing 16 Smith Anthony Hides, breaking and fleshing 16 Smith Anthony Hides, breaking and fleshing 16 Smith Arch Motion, rectlinear into rotary 13 Smith Arch Seeding corn, &c. 1 Smith Arch Smith Avery Bedstead for the sick 17 Smith Bartholomew Smith Bartholomew 17 Smith Benjamin Lock door 2 Smith Benjamin Lock door 2 Smith Benjamin Lock door 2 Smith Benjamin M Smut machine 1 Smith Benjamin M Hemp and flax, dressing and breaking 3 Smith Benjamin M Propelling boats 7 Smith Benjamin M Propelling boats 7 Smith Benjamin M Propelling boats 7 Smith Benjamin M Propelling boats 7 Smith Benjamin M Propelling boats 7 Smith Bushrod Seddles, elastic seat 1 Smith Bushrod Seddles, elastic seat 1 Smith Charles Thrashing machine 1 Smith Charles Thrashing machine 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Daniel Rake, hay 1 Smith Dani				
Smith, Addison				15
Smith, Alonzo L. Thrashing machine 1 Smith, Alonzo L. Thrashing machine 1 Smith, Alonzo L. Mineral water, soda apparatus 4 Smith, Amos F. Veneers, sawing 14 Smith, Amos F. Veneers, sawing 14 Smith, And P. Wheels, spokes, cutting tenons 10 Smith, Anthony Hides, breaking and fleshing 16 Smith, Arch. Motion, rectilinear into rotary 13 Smith and Arnold. Seeding corn, &c. 1 Smith, Avery Bedstead for the sick 17 Smith, Bartholomew Seeding corn, &c. 17 Smith, Bartholomew Smith, Berlamin Axes. 2 Smith, Benjamin Axes. 2 Smith, Benjamin F. Frearms. 19 Smith, Benjamin F. Frearms. 19 Smith, Benjamin M Smut machine 11 Smith, Benjamin M Hemp and flax, dressing and breaking 3 Smith, Benjamin M Propelling boats. 7 Smith, Benjamin M Propelling boats 7 Smith, Benjamin M Propelling boats 7 Smith, Benjamin M Propelling boats 7 Smith, Benjamin M Propelling boats 7 Smith, Burrows Coffee mill 13 Smith, Burrows Coffee mill 13 Smith, Burrows Coffee mill 13 Smith, Burrows Coffee mill 13 Smith, Burrows Coffee mill 13 Smith, Burrows Coffee mill 13 Smith, Burrows Coffee mill 13 Smith, Christopher H Spectacles, construction of 8 Smith, Christopher H Spectacles, construction of 8 Smith, Christopher H Spectacles, revolving glasses 6 Smith, Christopher H Spectacles, revolving glasses 7 Smith, Daniel Carding wool 3 Smith, Daniel Rake, hay 11 Smith, Daniel				13
Smith, Alonzo L. Smith, Alonzo L. Smith, Alonzo L. Smith, Alonzo L. Smith, Alonzo F. Veneers, sawing. Wheels, spokes, cutting tenons. Wheels, spokes, cutting tenons. Motion, rectilinear into rotary. Smith, Arch. Motion, rectilinear into rotary. Smith, Arch. Smith, Arch. Motion, rectilinear into rotary. Smith, Avery. Bedstead for the sick. 17 Smith, Bartholomew. Feathers, dressing and purifying. 17 Smith, Benjamin. Axes. 28 Smith, Benjamin. Axes. 29 Smith, Benjamin. Lock, door. 21 Smith, Benjamin. Lock, door. 20 Smith, Benjamin. Smith, Benjamin. Homp and flax, dressing and breaking. Truss for hernia. Smith, Benjamin. Truss for hernia. Smith, Benjamin. Propelling boats. 7 Smith, Benjamin. Propelling boats. 7 Smith, Benjamin. Smith, Benjamin. Smith, Benjamin. Propelling boats. 7 Smith, Benjamin. Smith, Benjamin. Smith, Benjamin. Smith, Benjamin. Propelling boats. 7 Smith, Benjamin. Smith, Benjamin. Smith, Benjamin. Smith, Benjamin. Propelling boats. 7 Smith, Benjamin. Smith, Benjami				18
Smith, Alonzo L. Smith, Amos P. Veneers, sawing				1
Smith Amos F Veneers, sawing 14			_	3
Smith, And. P. Hides, spokes, cutting tenons. 10 Smith, Anthony. Hides, breaking and fleshing. 16 Smith, Anth. Motion, rectilinear into rotary. 13 Smith and Arnold. Seeding corn, &c. 17 Smith, Bartholomew Feathers, dressing and purifying. 17 Smith, Bartholomew Smith, Benjamin. Axes. 2 Smith, Benjamin. Axes. 2 Smith, Benjamin. Lock, door. 2 Smith, Benjamin M Smut machine. 1 Smith, Benjamin M Smut machine. 1 Smith, Benjamin M Hemp and flax, dressing and breaking 3 Smith, Benjamin M Truss for hernia. 20 Smith, Benjamin M Propelling boats. 7 Smith, Benjamin M Propelling boats. 7 Smith, Benjamin M Propelling boats. 7 Smith, Benjamin M Propelling boats. 7 Smith, Benjamin M Propelling boats. 13 Smith, Brisman M Propelling boats, canal. 7 Smith, Burlam M Propelling boats, canal. 13 Smith, Burlam M Propelling boats, canal. 13 Smith, Burlam M Propelling boats, canal. 13 Smith, Burlam M Propelling boats, canal. 13 Smith, Burlam M Propelling boats, canal. 13 Smith, Burlam M Propelling boats, canal. 14 Smith, Burlam M Propelling boats, canal. 15 Smith, Burlam M Propelling boats, canal. 16 Smith, Burlam M Propelling boats, canal. 16 Smith, Burlam M Propelling boats, canal. 18 Smith, Burlam M Propelling boats, canal. 18 Smith, Burlam M Propelling boats, canal. 18 Smith, Charles Thrashing machine. 18 Smith, Christopher H Spectacles, construction of 8 Smith, Charles Thrashing machine. 18 Smith, Daniel Carding wool. 3 Smith, Daniel Rake, hay. 1 Smith, Daniel Rake, hay. 1 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Pump, labor saving. 11 Smith, David M Locks for doors, safes, &c. 2 Smith, David M Locks for doors, safes, &c. 2 Smith, David M Locks for doors, safes, &c. 2 Smith, Eleazer. Spinning jenny and billy. 3 Smith, Eleazer. Spi			- 2	1
Hides, breaking and fleshing 16				25
Smith, Arch. Smith and Arnold. Smith and Arnold. Smith and Arnold. Smith and Arnold. Smith Bartholomew Smith, Bartholomew Smith, Bentholomew Smith, Bentholomew Smith, Benjamin. Smith, Benjamin. Smith, Benjamin. Smith, Benjamin. Lock, door. Smith, Benjamin. Lock, door. Smith, Benjamin. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Smith, Benjamin M. Propelling boats. Thropelling b	Smith, And. P	Wheels, spokes, cutting tenons		2
Semith and Arnold. Seeding corn. &c. 1	Smith, Anthony	Hides, breaking and fleshing		25
Smith, Avery. Smith, Bartholomew Smith, Bartholomew Smith, Benjamin Axes. Smith, Benjamin Axes. Smith, Benjamin Axes. Smith, Benjamin M Smith, Benjamin M Smith, Benjamin M Smith, Benjamin M Smith, Benjamin M Smith, Benjamin M Smith, Benjamin M Smith, Benjamin M Smith, Benjamin M Smith, Benjamin M Smith, Benjamin M Propelling paddle wheels, &c. 7 Smith, Benjamin M Propelling paddle wheels, &c. 7 Smith, Benjamin M Propelling paddle wheels, &c. 7 Smith, Burtows Smith, Burtows Smith, Burtows Smith, Burtows Smith, Burtows Smith, Burtows Smith, Christopher H Spectacles, construction of Smith, Christopher H Spectacles, construction of Smith, Daniel Smith, Daniel Carding wool Smith, Daniel Rake, hay. 11 Smith, Daniel Pump, labor saving Smith, Daniel Smith, Daniel Smith, Daniel Smith, Daniel Smith, Daniel Smith, Daniel Smith, Daniel Smith, Daniel Smith, David M Awl haft Smith, David M Smith, David M Smith, David M Smith, Ebenezer Smith, Elibu Stave, Cooking Smith, Elibu Smith, Elibu Stave, Cooking Smith, Elibu Smith, Eliba Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith, Eliba Smith, Eliba Smith, Eliba Smith, Eliba Churn Smith, Eliba Smith,	Smith, Arch	Motion, rectilinear into rotary		2
Smith, Bartholomew Smith, Bartholomew Smith, Bartholomew Smith, Bartholomew Smith, Barlamin. Axes. 2 Smith, Benjamin. Lock, door. 2 Smith, Benjamin F. Fire arms. 19 Smith, Benjamin M. Smuth, Benjamin M. Smith, Benjamin M. Hemp and flax, dressing and breeking 3 Smith, Benjamin M. Truss for hernia. 3 Smith, Benjamin M. Propelling boats. 7 Smith, Benjamin M. Propelling boats. 7 Smith, Benjamin M. Propelling boats. 7 Smith, Benjamin M. Propelling boats. 7 Smith, Benjamin M. Propelling boats. 7 Smith, Benjamin M. Propelling boats. 7 Smith, Burrows Coffee mill. 13 Smith, Burrows Coffee mill. 13 Smith, Christopher H. Spectacles, construction of Smith, Christopher H. Spectacles, construction of Smith, Christopher H. Spectacles, revolving glasses. 8 Smith, Cutts John. Piano forte, key for tuning. 18 Smith, Daniel Rake, hay. 1 Smith, Daniel Rake, hay. 1 Smith, Daniel Rake, hay. 1 Smith, Daniel Rake, hay. 1 Smith, Daniel Rake, hay. 1 Smith, Daniel Rake, hay. 1 Smith, Daniel Rake, hay. 1 Smith, David M. Plane, revolving. 14 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, Eleazer Straw flats and bonnets; cleaning Smith, Elihu Stoves, cooking. 5 Smith, Elihu Stoves, cooking. 5 Smith, Elihu Stoves, cooking. 5 Smith, Elihu Chimneys, ovens, doc. 5 Smith, Elihu Chimneys, ovens, doc. 5 Smith, Elihu Chimneys, ovens, doc. 5 Smith, Elihu Chimneys, ovens, doc. 5 Smith, Eliha Chimneys, ovens, doc. 5 Smith, Eliha Chimneys, ovens, doc. 5 Smith, Eliha Chimneys, ovens, doc. 5 Smith, Eliha Chimneys, ovens, doc. doc. 5 Smith, Eliha Chimneys, ovens, doc. doc. 5 Smith, Eliha Chimneys, ovens, doc. doc. 5 Smith, Eliha Chimneys, ovens, doc. doc. 6 Smith, Eliha Chimneys, ovens, doc. doc. 6 Smith, Eliha Chimneys, ovens, doc. doc. 6 Smith, Eliha Chimneys, ovens, doc. doc. 6 Smith, Eliha Chimneys, ovens, doc. doc. doc. 6 Smith, Eliha Chimneys, ovens, doc. doc. 6 Smith, Eliha Chimney Chimneys and p	Smith and Arnold	Seeding corn, &c		1 5
Smith, Bartholomew	Smith, Avery	Bedstead for the sick	17	3
Smith, Berlamin	Smith, Bartholomew	Feathers, dressing and purifying	17	3
Smith, Benjamin.		Smut machine		
Smith Benjamin F		Axes	2	1
Smith, Benjamin M. Smut machine. 19 Smith, Benjamin M. Hemp and flax, dressing and breaking 3 Smith, Benjamin M. Hemp and flax, dressing and breaking 3 Smith, Benjamin M. Propelling boats. 7 Smith, Benjamin M. Propelling paddle wheels, doc. 7 Smith & Brown Propelling paddle wheels, doc. 7 Smith, Burrows Coffee mill. 13 Smith, Burrows Coffee mill. 13 Smith, Burrows Coffee mill. 13 Smith, Brith, Brith, Charles Smith, Charles Smith, Charles Smith, Christopher H. Spectacles, construction of 8 Smith, Christopher H. Spectacles, construction of 8 Smith, Christopher H. Spectacles, crevolving glasses 8 Smith, Daniel Carding wool. 3 Smith, Daniel Rake, hay 11 Smith, Daniel Rake, hay 11 Smith, Daniel Rake, hay 11 Smith, Daniel R. Cough drops 11 Smith, Daniel R. Cough drops 14 Smith, David M. Pressing machines for preparing to bacco for 12 Smith, David M. Awl haft 12 Smith, David M. Awl haft 12 Smith, David M. Awl haft 13 Smith, Ebenezer Spinning jenny and billy 3 Smith, Eleazer Straw, flats and bonnets; cleaning 4 Smith, Elihu Smith, Elihu Chim. 14 Smith, Elihu Smith, Elihu Chim. 14 Smith, Elihu Smith, Elihu Chim. 14 Smith, Elihu Chim. 14 Smith, Elihu Smith, Elihu Chimneys, ovens, doc. 15 Smith, Elihu Chimneys, ovens, doc. 15 Smith, Elihu Chimneys, ovens, doc. 15 Smith, Elihu Chimneys, ovens, doc. 15 Smith, Elihu Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15 Smith, Eliha Chimneys, ovens, doc. 15			2	1 9
Smith Benjamin M Hemp and flax dressing and breaking 3			19	3:
Smith, Benjamin M. Hemp and flax, dressing and breaking Smith, Benjamin M. Propelling boats			1	1 :
Smith Benjamin M				1
Smith Benjamin M				3
Smith, Benjami M. Propelling paddle wheels, &c. 7 Smith & Brown Propelling boats, canal. 7 Smith & Brown Propelling boats, canal. 7 Smith & Bushrod Propelling boats, canal. 7 Smith, Bushrod Smith, Bushrod Saddles, elastic seat. 16 Smith, Charles Thrashing machine 18 Smith, Christopher H Spectacles, construction of 6 Smith, Christopher H Spectacles, construction of 6 Smith, Christopher H Spectacles, crevolving glasses 8 Smith, Daniel Carding wool 3 Smith, Daniel Rake, hay 1 Smith, Daniel Pump, labor saving 11 Smith, Daniel A Loom temples, perpetual 3 Smith, Daniel N Plane, revolving 14 Smith, Daniel N Pressing machines for preparing to bacco for 12 Smith, David M Awl haft 2 Smith, David M Awl haft 2 Smith, David M Smith, David M Smith, David M Smith, David M Smith, David M Smith, Ebenezer Spinning jenny and billy 2 Smith, Ebenezer Spinning jenny and billy 3 Smith, Edward B Stairs, circular, &c 9 Smith, Eleazer Straw, flats and bonnets; cleaning 4 Smith, Elihu Stoves, cooking 5 Smith, Elihu Stoves, cooking 5 Smith, Elisha Tricture for curing corns 4 Smith, Elisha Gout nostrum 5				ľ
Smith & Brown Propelling boats, canal 7 7 7 7 7 7 7 7 7				r
Smith Burrows South Burrows Smith Burrows Substity Smith Burrows Substity Smith Burrows Substity Substity Smith Substity Smith Substity Smith Smith Christopher H Spectacles, construction of Smith Christopher H Spectacles, construction of Smith Christopher H Spectacles, construction of Smith Christopher H Spectacles, construction of Smith Christopher H Spectacles, construction of Smith Christopher H Spectacles, construction of Smith Christopher H Spectacles, construction of Smith Carding wool Smith Daniel Carding wool Smith Daniel Carding wool Smith Daniel Rake, hay 1 Pump, labor saving 1 Smith Daniel E Cough drops 4 Smith Daniel N Plane, revolving 14 Pressing machines for preparing to bacco for 12 Smith David M Awl haft 2 Awl haft 2 Smith David M Awl haft 2 Smith David M Awl haft 2 Smith David M Locks for doors, safes, &c. 2 Smith David M Locks for doors, safes, &c. 2 Smith Ebenezer Spinning jenny and billy 3 Smith Eleazer Straw flats and bonnets, cleaning 4 Smith Eleazer Straw Straw bonnets, pressing 1 Smith Elihu Stoves, cooking 5 Smith Elihu Smith Elihu Stoves, cooking 5 Smith Elihu Smith Elisha Tincture for curing corns 4 Smith Elisha Tincture for curing corns 4 Smith Elisha Tincture for curing corns 4 Smith Elisha Tincture for curing corns 4 Smith Elisha Tincture for curing corns 4 Smith Elisha Tincture for curing corns 4 Smith Elisha Cout nostrum 4 Smith Elisha Cout nostrum 4 Smith Elisha Cout nostrum 4 Smith Elisha Cout nostrum 4 Smith Elisha Cout nostrum 4 Smith Elisha Cout nostrum 4 Smith Elisha Cout nostrum 4 Smith Elisha Cout nostrum 4 Smith Elicka Cout nostrum 4 Smith Elisha Cout nostrum 4 Smith Elicka Cout nostrum 4		Propelling bacter canal		î
Smith, Bushrod. Saddles, elastic seat. 16 Smith, B. C. Paper, cane hemp, making. 3 Smith, Christopher H. Spectacles, construction of. 8 Smith, Christopher H. Spectacles, revolving glasses. 8 Smith, Catts John. Piano forte, key for tuning. 18 Smith, Daniel Carding wool. 3 Smith, Daniel Rake, hay. 1 Smith, Daniel Pump, labor saving. 11 Smith, Daniel A. Loom temples, perpetual. 3 Smith, Daniel B. Cough drops. 4 Smith, Daniel N. Plane, revolving. 14 Smith, David M. Pressing machines for preparing tobacco for. 12 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Locks for doors, safes, &c. 2 Smith, David M. Smith for fractured limbs. 3 Smith, Ebenezer. Spinning jenny and billy. 3 Smith, Eleazer.			1	2
Smith, B. C. Paper, cane hemp, making. 3 Smith, Charles. Thrashing machine. 1 Smith, Christopher H. Spectacles, construction of . 6 Smith, Christopher H. Spectacles, revolving glasses. 8 Smith, Cutts John. Piano forte, key for tuning. 18 Smith, Daniel Carding wool. 3 Smith, Daniel Rake, hay. 1 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Cough drops. 4 Smith, Daniel Cough drops. 4 Smith, Daniel Plane, revolving. 14 Smith, David M. Pressing machines for preparing tobacco for. 12 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Smith, David M. Smith, David M. Smith, David M. Smith, David M. Smith, Ebenezer. Spinning jenny and billy. 3 Smith, Ebenezer. Spinning jenny and billy. 3 Smith, Eleazer. Straw, flats and bonnets, cleaning. 3 Smith, Eleazer. Straw, flats and bonnets, cleaning. 3 Smith, Elihu. Stoves, cooking. 5 Smith, Elihu. Stoves, cooking. 5 Smith, Elisha Friction matches. 4 Smith, Elisha Chimneys, ovens, &c. 5 Smith, Elsha Gout nostrum. 4 Smith, Elsha Gout nostrum. 3 Smith, Eleazer. Straw, flats and bonnets. 5 Smith, Elisha Gout nostrum. 4 Smith, Elisha Gout nostrum. 4 Smith, Elisha Gout nostrum. 3 Smith, Elmery. Catton wasta &c. thresame. 3 Smith, Elmery. Catton wasta &c. thresame. 3				2
Smith, Christopher H. Spectacles, construction of Smith, Christopher H. Spectacles, revolving glasses. 8 Smith, Cutts John. Piano forte, key for tuning. 18 Smith, Daniel Carding wool. 3 Smith, Daniel Rake, hay. 11 Smith, Daniel Pump, labor saving. 11 Smith, Daniel Coogh drops. 4 Smith, Daniel Coogh drops. 4 Smith, Daniel N. Plane, revolving. 14 Smith, David. Pressing machines for preparing tobacco for Churu. 12 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Locks for doors, safes, &c. 2 Smith, David M. Splints for fractured himbs. 30 Smith, Ebenezer. Splints for fractured himbs. 30 Smith, Ebenezer. Straw, flats and bonnets; cleaning Smith, Elieu. Smith, Elihu. Straw bonnets, pressing. 11 Smith, Elihu. Straw bonnets, pressing. 11 Smith, Elihu. Straw bonnets, pressing. 11 Smith, Elihu. Stroves, cooking. 5 Smith, Elisha Friction matches. 4 Smith, Elisha Gout nostrum. 4 Smith, Elisha Gout nostrum. 3 Smith, Elisha Gout nostrum. 3 Smith, Elisha Gout nostrum. 3 Smith, Elisha Gout nostrum. 4 Smith, Elisha Gout nostrum. 3 Smith Elisha Gout nostrum. 3 Smith Elisha Gout nostrum. 3 Smith Elisha Gout nostrum. 3 Smith Elisha Gout nostrum. 3 Smith Elisha Gout nostrum. 3 Smith Elisha Gout nostrum. 3 Smith Elisha Gout nostrum. 3 Smith Elisha Gout nostrum. 3 Smith Gout				1 7
Smith, Christopher H. Spectacles, construction of . 8 Smith, Christopher H. Spectacles, revolving glasses . 8 Smith, Catts John . Piano forte, key for tuning . 18 Smith, Daniel				3
Smith, Christopher H. Spectacles, revolving glasses. 8 Smith, Catts John. Piano forte, key for tuning. 18 Smith, Daniel Carding wool 3 Smith, Daniel Rake, hay 1 Smith, Daniel Pump, labor saving 11 Smith, Daniel Rake, hay 11 Smith, Daniel Rake, hay 12 Smith, Daniel R Cough drops 4 Smith, Daniel N. Plane, revolving 14 Smith, David N. Plane, revolving 14 Smith, David M. Awi haft 2 Smith, David M. Awi haft 2 Smith, David M. Locks for doors, wafes, &c. 2 Smith, David M. Locks for doors, wafes, &c. 2 Smith, Ebenezer Spinning jenny and bilty 3 Smith, Ebenezer Spinning jenny and bilty 3 Smith, Ebenezer Straw, flats and bonnets, cleaning. Smith, Eleazer Straw, flats and bonnets, cleaning. 3 Smith, Elihu Straw bonnets, pressing. 3 Smith, Elihu Laths, machine 14 Smith, Eliha Friction matches 4 Smith, Elisha Friction matches 4 Smith, Elisha Chimneys, ovens, &c 5 Smith, Elisha Chimneys, ovens, &c 5 Smith, Elba Gout nostrum 4 Smith, Elmey Catton wasta &c dressing. 3 Smith, Elmey Catton wasta &c dressing. 3 Smith, Elmey Catton wasta &c dressing. 3 Smith, Elmey Catton wasta &c dressing. 3 Smith, Elmey Catton wasta &c dressing. 3 Smith Emery Catton wasta &c dressing. 3		Questing machine		18
Smith, Cutts John. Piano forte, key for tuning. 18 Smith, Daniel		Specucies, construction of		1
Smith, Daniel Carding wool 3 Smith, Daniel Rake, hay 11 Smith, Daniel Pump, labor saving 11 Smith, Daniel A Loom temples, perpetual 3 Smith, Daniel E Cough drops 4 Smith, Daniel N Plane, revolving 14 Smith, David Pressing machines for preparing to- bacco for 12 Smith, David M Awl haft 2 Smith, David M Awl haft 2 Smith, David M Locks for doors, safes, &c 2 Smith, David M Splints for fractured limbs 30 Smith, Ebenezer Splints for fractured limbs 30 Smith, Ebenezer Sprand billy 3 Smith, Ebenezer Straw, flats and bonnets; cleaning 3 Smith, Eleazer Straw, flats and bonnets; cleaning 3 Smith, Elihu Laths, machine 14 Smith, Elihu Laths, machine 14 Smith, Elihu Stoves, cooking 5 Smith, Elisha Friction matches 4 Smith, Elisha Timeture for curing corms 4 Smith, Elisha Chimneys, ovens, &c 5 Smith, Elisha Gout nostrum 4 Smith, Elisha Gout nostrum 4 Smith, Elisha Gout nostrum 4 Smith, Elisha Gout nostrum 4 Smith, Elisha Chion wasta &c thresame 3			هـ ا	3
Smith Daniel Rake hay 1 1 1 1 1 1 1 1 1				
Smith, Daniel				
Smith, Daniel A		Rake, nay		ي ا
Smith Daniel E Cough drops 14				2
Smith, Daniel N. Plane, revolving				
Smith, David. Pressing machines for preparing tobacco for. 12 Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Locks for doors, wafes, &c. 2 Smith, D. S. C. H. Splints for fractured limbs. 20 Smith, Ebenezer. Spinning jenny and billy. 3 Smith, Ebenezer. Crane, lever. 12 Smith, Eleazer. Straw, flats and bonnets, cleaning. 3 Smith, Eleazer. Straw bonnets, pressing. 3 Smith, Elihu. Laths, machine. 11 Smith, Elihu. Stoves, cooking. 5 Smith, Elisha Tincture for curing corns. 4 Smith, Elisha Chimneys, ovens, &c. 5 Smith, Elisha Gout nostrum. 4 Smith, Elbaa Gout nostrum. 4 Smith, Elbaa Cotton waste &c. 3			1	1 1
Bacco for	Smith, Daniel N		14	2
Smith, David Churn. 1 Smith, David M. Awl haft. 2 Smith, David M. Locks for doors, safes, &c. 2 Smith, D. S. C. H. Splints for fractured limbs. 20 Smith, Ebenezer. Spinning jenny and billy. 3 Smith, Edward B. Stairs, circular, &c. 12 Smith, Eleazer. Straw, flats and bonnets, cleaning. 4 Smith, Eliazer. Straw bonnets, pressing. 3 Smith, Elihu. Laths, machine. 11 Smith, Elihu. Laths, machine. 14 Smith, Elisha Friction matches. 4 Smith, Elisha Tincture for curing corns. 4 Smith, Elisha Chimneys, ovens, &c. 5 Smith, Elisha Gout nostrum. 4 Smith, Elmery Cation waste &c., thresame. 3	Smith, David		1	١ ـ
Smith, David M. Awl haft. 2 Smith, David M. Awl haft. 2 Smith, David M. Locks for doors, vafes, &c. 2 Smith, David M. Locks for doors, vafes, &c. 2 Smith, D.S. C. H. Splints for fractured limbs. 30 Smith, Ebenezer. Spinning jenny and bilty. 3 Smith, Ebenezer. Crane, lever. 12 Smith, Eleazer. Straw, flats and bonnets, cleaning. 4 Smith, Eleazer. Straw, flats and bonnets, cleaning. 3 Smith, Eleazer. Straw bonnets, pressing. 3 Smith, Elihu. Laths, machine. 11 Smith, Elihu. Laths, machine. 14 Smith, Elihu. Stoves, cooking. 5 Smith, Elisha Friction matches. 4 Smith, Elisha Tincture for curing corms 4 Smith, Elisha Gout nostrum. 4 Smith, Elisha Gout nostrum. 4 Smith, Elisha Gout nostrum. 3 Smith, Elisha Gout nostrum. 3		bacco for	_	2
Smith, David M. Awl haft. 2 Smith, David M. Locks for doors, safes, &c. 2 Smith, D. S. C. H. Splints for fractured limbs. 20 Smith, Ebenezer. Splints for fractured limbs. 20 Smith, Ebenezer. Splints for fractured limbs. 20 Smith, Edward B. Stairs, circular, &c. 3 Smith, Eleazer. Straw, flats and bonnets; cleaning. 4 Smith, Eleazer. Straw bonnets, pressing. 3 Smith, Elih. Pump, forcing, for fire engines. 11 Smith, Elihu. Laths, machine. 14 Smith, Elihu. Stoves, cooking. 5 Smith, Elisha Friction matches. 4 Smith, Elisha Tincture for curing corns. 4 Smith, Elisha Gout nostrum. 5 Smith, Elisha Gout nostrum. 4 Smith, Elisha Gout nostrum. 4 Smith, Elisha Gout nostrum. 3	Smith, David	Churn	_	
Smith, David M. Locks for doors, safes, &c. 2 Smith, David M. Locks for doors, safes, &c. 2 Smith, D. S. C. H. Splints for fractured limbs. 30 Smith, Ebenezer. Spinning jenny and billy. 3 Smith, Ebenezer. Crane, lever. 12 Smith, Eleazer. Stairs, circular, &c. 4 Smith, Eleazer. Straw, flats and bonnets; cleaning. 3 Smith, Eli. Pump, forcing, for fire engines. 11 Smith, Elihu. Laths, machine. 14 Smith, Elihu. Stoves, cooking. 5 Smith, Elisha Friction matches. 4 Smith, Elisha Tincture for curing corns 4 Smith, Elisha Gout nostrum. 5 Smith, Elisha Gout nostrum. 4 Smith, Elisha Gout nostrum. 3 Smith, Elisha Gout nostrum. 3 Smith, Elisha Gout nostrum. 3 Smith, Elisha Gout nostrum. 3		Awl haft	2	1
Smith, David M. Locks for doors, vafes, &c. 2 Smith, D. S. C. H. Splints for fractured limbs. 30 Smith, Ebenezer. Spinning jenny and billy. 3 Smith, Ebenezer. Crane, lever. 12 Smith, Eleazer. Straw, flats and bonnets, cleaning. 4 Smith, Eleazer. Straw bonnets, pressing. 3 Smith, Elihu. Laths, machine. 11 Smith, Elihu. Stoves, cooking. 5 Smith, Elisha Friction matches. 4 Smith, Elisha Tincture for curing corns. 4 Smith, Elisha Chimneys, ovens, &c. 5 Smith, Elibha Gout nostrum. 4 Smith, Elmery Cout nostrum. 3		Awl haft		1 1
Smith, D. S. C. H. Splints for fractured himbs	Smith, David M.		2	1
Smith, Ebenezer. Spinning jenny and billy. Smith, Ebenezer. Crane, lever. 19 Smith, Eleazer. Straw, flats and bonnets, cleaning. Smith, Eleazer. Straw flats and bonnets, cleaning. Smith, Eli. Bmith, Elihu. Laths, machine. 11 Smith, Elihu. Stoves, cooking. 5 Smith, Elisha Friction matches. 4 Smith, Elisha Chimneys, ovens, &c. 5 Smith, Elibha Goul nostrum. 5 Smith, Elibha Goul nostrum. 3		Splints for fractured limbs	20	3
Smith, Ebenezer			3	1 9
Smith, Edward B. Stairs, circular, &c. 9 Smith, Eleazer. Straw, flats and bonnets; cleaning 4 Smith, Eleazer. Straw bonnets, pressing 3 Smith, Elihu. Straw bonnets, pressing 11 Laths, machine. 14 Smith, Elihu. Stoves, cooking 5 Smith, Elisha Friction matches 4 Smith, Elisha Timeture for curing corns 4 Smith, Elihu. Chimneys, ovens, &c 5 Smith, Elibha Gout nostrum 4 Smith, Elibha Gout nostrum 3 Smith, Elibha Gout nostrum 3			12	2
Smith, Eleazer			9	9
Smith, Eleazer			Ă.	Ĩ
Smith, Eli. Pump, forcing, for fire engines. 11 Smith, Elihu Laths, machine. 14 Smith, Elihu Stoves, cooking. 5 Smith, Elisha Friction matches. 4 Smith, Elisha Tincture for curing corns. 4 Smith, Elisha Chimneys, ovens, &c. 5 Smith, Elisha Gout nostrum. 4 Smith, Elisha Cout nostrum. 4 Smith, Elisha Cout nostrum. 4 Smith, Elisha Cout nostrum. 3				1 3
Smith, Elihu		Dump foreign for fee engines		2
Smith, Elisha				2
Smith, Elisha	Duitui, Edinu	Grane as him		1
Smith, Elisha				1
Smith, Elibha Chimneys, ovens, &c 5 Smith, Elibha Gout nostrum 4 Smith Emery Cotton waste &c. thesains 3				i
Smith, Elisha Gout nostrum 4			_	
Smith Emery Cotton waste for threating 3			3	1
Smith, Emery Cotton waste; &c. dressing 3			4	19
			3	
Smith, Ez. T. Lamps, pneumatic. 5 Smith, Francis H. Seeding, cotton planter. 1	Smith, Ez. T	Lamps, pneumatic		1

PATENTERS. INVENTIONS OR DISCOVERIES.	CLASS.	PAGE_
Smith, Francis H Harmonicon	18	300
Smith, Francis H Lime, spreading	l ī	15
Smith, Francis N Corn shellers	l ī	9
Smith, Francis Pettit Propelling steam and other boats	7	175
Smith, Frederick Grist mill, with small stones	13	254
Smith, Franklin G Navigation, machinery used in		171
Smith, Franklin G Steam engine	6	157
Smith, George	, 4	113
Smith, George Cordage, silk weed for	3	71
Smith, George	17	311
Smith, Hemon Steam engine, rotary	6	161
Smith, Henry Pen, instrument for holding	18	394
Smith, Henry Horse power	13	255
Smith, Henry—see White and Marsh.		
Smith, Henry W Drills, improvement in	1	11
Smith, Hervey Salt, &c., manufacture of	4	115
Smith, Hiram	Ĩ	24
Smith, Hiram M	10	205
Smith, Hiram M Straw cutter	1	27
Smith, Hiram M Tobacco, spinning	223	359
Smith, H. C.—see Jones, W. J.		_
Smith, Ira areignos to Adir Grand	1,1	~~
Smith, Ira, assignor to Adin Gauntt Bedstead fastenings	17	308
Smith, Isaac W Blowers, steamboat	6	151 101
Smith, Jabez	i	14
Smith, Jabez Mill for hulling cotton seed	13	257
Smith, Jacamiah	14	274
Smith, Jacob, ir Engine, fire	ii	221
Smith, James	20	345
Smith, James Wheels, spokes, cutting tenons	10	215
Smith, James Spinning mule, self-acting	3	91
Smith, James A Axletrees and boxes	10	205
Smith, Jarvis Water wheel, flutter, &c	11	239
Smith Jesse C	13	253
Smith, Jesse J Staves, sawing, for barrels	14	281 83
	3 2	83
Smith, John Trip hammer	3	71
Smith, John	ı	8
Smith, John—see Taylor	1 1	•
Smith, John A Liquors, mode of elevating.	11	294
Pump, package	11	227
Smith, John B Cultivator, corn.	1	10
Smith, John B		10
Smith, John Cutts Baths, portable, shower	20	341
Smith, John C	16	296
Smith, John C	16	296
Smith, John C	1	18
	3	71 88
Smith, John D		101
Smith, John K.	10	206
Smith, John K.		206
water wheel	īĭ	221
Propelling boats by screw wheel, &c	7	174
Smith, John P	8	186
Smith, John R Cooking stove and oven	5	143
Shovel scoon	2	59
Shingles, sawing from the stock	14	270
Smith Leaseh		
Smith, Joseph	10 9	2008

Smith, Joseph F. Bimnacle lights. 5 Smith, Josiah C. Beds, palm leaf. 17 Smith, Junius Washing machine, steam 17 Smith, Larkin Washing machine, steam 17 Smith, Lewis T. C. Shoes, horse. 18 Smith, Lyman, jr., and Griffin R. Waring Smith, Mahlon. Plough, shares and cutters of, &c. 18 Smith, Moses. Watering machine for cattle. 11 Smith, Moses. Compass, needle, marine, &c. 18 Smith, Normand Brakes, self-acting, for inclined planes Smith, Normand Flues, chimney, dampers for 5 Smith & Odel Linens, smoothing. 3 Smith & Odel Linens, smoothing. 3 Smith, Peter Price Staves, sawing 14 Smith, Richard W Brick, fire-proof 15 Smith, Robert Proc. 17 Smith, Robert Proc. 17 Smith, Robert Ro	30 20 20 20 20 20 20 20 20 20 20 20 20 20
Smith, Josiah C. Beds, palm leaf. Smith, Judson Auger, screw	28 31 31 31 31 31 31 31 31 31 31 31 31 31
Smith, Junius	31 31 31 31 32 32 32 32 32 32 32 32 32 32 32 32 32
Seaith, Larkin	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32
Shaith, Leonard. Smith, Lewis T. C. Smith, Lewis T. C. Smith, Mahlon. Smith, Matthew Smith, Moses. Smith, Moses. Smith, Moses. Smith, Moses. Smith, Noses. Smith, Noses. Smith, Noses. Smith, Nicholas. Smith, Normand Smith, Normand Smith, Normand Smith, Normand Smith, Normand Smith & Odell Smith & Odell Smith & Peter. Smith & Price Smith & Price Smith, Richard W Smith, Richard W Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Roger Smith, Samuel Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Standfast Salt, extracting, facilitating the process by Cess by Diving suit.	3 5 5 25 25 27 27 27 27 27 27 27 27 27 27 27 27 27
Smith, Lewis T. C. Shoes, horse. Smith, Lyman, jr., and Griffin R. Waring Smith, Mahlon. Smith, Matthew Blocks, stereotype, used, &c. 18 Smith, Moses. Watering machine for cattle. Smith, Moses. Compass, needle, marine, &c. 8 Smith, Notholas. Compass, needle, marine, &c. 8 Smith, Nicholas. Cooking stove and parlor. Smith, Normand Flues, chimney, dampers for 5 Smith & Odney Flues, chimney, dampers for 5 Smith, Peter. Printing press. Staves, sawing Smith, Richard W Brick, fire-proof Smith, Richard W Brick, fire-proof 15 Smith, Robert Propelling, alternate lever, &c. 7 Populing, alternate lever, &c. 7 Plough, mould board Smith, Robert Propelling, alternate lever, &c. 7 Plough, mould board Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Additional Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Additional Raising water from wells Smith, Samuel Additional Raising water from wells Smith, Samuel Additional Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Samuel Raising water from wells Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Standfast Salt, extracting from sea-water. Smith, Standfast Salt, extracting from sea-water. Smith, Standfast Salt, extracting, facilitating the process by Diving suit.	5 21 21 22 25 25 25 27 27
Smith, Lyman, jr., and Griffin R. Waring Smith, Mahlon. Smith, Mathew Blocks, stereotype, used, &c. Smith, Moses. Smith, Moses. Smith, Nicholas. Smith, Nicholas. Smith, Normand Smith, Normand Smith, Peter. Smith, Peter. Smith, Richard W Smith, Richard W Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Roger Smith, Roger Smith, Samuel Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Standfast Salt, extracting, facilitating the process by Cess by Diving suit. 10 10 10 10 10 10 10 10 10 1	21 21 23 23 23 24 26 26 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Smith, Mahlon Smith, Mathew Smith, Moses Smith, Noses Smith, Noses Smith, Noses Smith, Normand Smith, Normand Smith, & Odell Smith & Odell Smith & Orley Smith & Orley Smith & Price Smith, Riley Smith, Riley Smith, Robert Smith, Robert Smith, Robert Smith, Roger Smith, Roger Smith, Roger Smith, Roger Smith, Samuel Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Smith, S	2 38 28 28 28 28 28 28 28 28 28 28 28 28 28
Smith, Matthew. Smaith, Moses. Smith, Moses. Smith, Moses. Smith, Norholas. Smith, Nicholas. Smith, Norholas. Smith, Normand. Smith, Normand. Smith, Peter. Smith, Peter. Smith, Richard W. Smith, Riley. Smith, Robert. Smith, Robert. Smith, Robert. Smith, Robert. Smith, Robert. Smith, Roger. Smith, Roger. Smith, Samuel Smith, Silas Smith, Silas Smoke, ventilator Smith, Standfast Salt, extracting from sea-water Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Stan	389 289 188 188 189 199 199 199 199 199 199 1
Smith, Moses. Smith, Moses. Smith, Noses. Smith, Nicholas. Smith, Nicholas. Smith, Normand Smith, Normand Smith, Normand Smith, Normand Smith, Normand Smith, Robert Smith & Olney. Smith & Price Smith & Price Smith, Riley. Smith, Riley. Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Robert Smith, Roger Smith, Roger Smith, Roger Smith, Roger Smith, Samuel Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Standfast Salt, extracting, facilitating the process by Salt, extracting, facilitating the process by Diving suit.	29 18 20 14 19 7 7 7 39 28 28 28 28 28 28 28 28 28 28 28 28 28
Smith, Moses	18 20 14 12 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Smith, Nathan	20 14 12 7 7 39 28 28 28 17 25 25
Smith, Nicholas. Smith, Normand. Smith & Odell. Smith & Odell. Smith & Odney. Smith & Olney. Smith, Peter. Smith & Price. Smith, Richard W. Smith, Richard W. Smith, Robert. Smith, Samuel Smith, Samuel Smith, Samuel Smith, Samuel Smith, Samuel Smith, Samuel Smith, Samuel Smith, Samuel Smith, Samuel Smith, Samuel Smith, Samuel Smith, Samuel Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Standfast. Salt, extracting from sea-water. Smith, Standfast. Salt, extracting, facilitating the process by. Smith, Standfast. Salt, extracting, facilitating the process by. Smith, Standfast. Salt, extracting, facilitating the process by. Smith, Standfast. Salt, extracting, facilitating the process by. Smith, Standfast. Smith, Standfast. Salt, extracting, facilitating the process by. Smith, Standfast. Smith, Standfast. Smith, Standfast. Smith, Standfast. Smith, Standfast. Salt, extracting, facilitating the process by. Smith, Standfast. Smith, Stand	14 12 7 7 38 28 28 28 28 28 28 27
Smith, Normand. Flues, chimney, dampers for. 55 mith & Odell Linens, smoothing. 3 mith & Olney Flax and hemp dressing. 3 mith, Peter. Printing press 18 mith & Price Staves, sawing 14 mith & Price Staves, sawing 14 mith & Price Staves, sawing 14 mith & Price Staves, sawing 14 mith & Price Staves, sawing 14 mith & Price Staves, sawing 14 mith & Smith, Riley Timber, boring 15 mith, Robert Propelling, alternate lever, &c. 7 mith, Robert Propelling, alternate lever, &c. 1 mith, Robert Propelling, alternate lever, &c. 1 mith, Robert Propelling, alternate lever, &c. 1 mith, Robert Propelling, alternate lever, &c. 1 mith, Robert	12 7 7 39 28 28 28 17 25 25
Smith & Odell. Smith & Odell. Smith & Olney. Flax and hemp dressing. Flat and hemp dressing. Flat and hemp dressing. Flat and hemp dressing. Flat and hemp dressing. Flat and hemp dressing. Flat and hemp dressing. Flat and hemp dressing. Flat and hemp dressing. Flat and hemp dressing. Flat and hemp dressing. Flat and hemp dressing.	7 7 38 28 28 28 17 2 5 25
Smith & Olney. Smith, Peter. Smith, Peter. Smith, Richard W Smith, Richard W Smith, Robert Smith, Samuel Raising water from wells Smith, Samuel Smith, Samuel Smith, Samuel Moulds for casting boxes Smith, Samuel Moulds for running boxes Smith, Samuel Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Standfast Salt, extracting from sea-water Salt, extracting, facilitating the process by Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Supenders, manufacturing Salt, extracting, facilitating the process by Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Supenders, facilitating the process by Smith, Standfast Smith, Standfast Salt, extracting, facilitating the process by Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Standfast Smith, Stan	7 39 28 28 28 17 2 5 25
Smith, Peter. Printing press. 18 Smith & Price Staves, sawing 14 Smith, Richard W. Brick, fire-proof 15 Smith, Riley. Timber, boring. 14 Smith, Robert Propelling, alternate lever, &c. 7 Smith, Robert Plough, mould board 19 Smith, Robert Riveting metallic plates for boilers. 20 Smith, Robert Sawing wood in a circular manner 14 Smith, Roger Sawing wood in a circular manner 14 Smith, Roger Sawing wood in a circular manner 14 Smith, Samuel Raising water from wells 11 Smith, Samuel Raising water from wells 11 Smith, Samuel Kitchens, steam, for baking 55 Smith, Samuel Kitchens, steam, for baking 55 Smith, Samuel Roulds for casting boxes 22 Smith, Samuel P Bedsteads. 17 Smith, Silas Distilling, whiskey 55 Smith, Silas Distilling, whiskey 55 Smith, Silas Distilling, whiskey 55 Smith, Silas Smoke, ventilator 55 Smith, Standfast Salt, extracting from sea-water 58 Smith, Standfast Salt, extracting, facilitating the process by 58 Smith, Standfast Salt, extracting, facilitating the process by 58 Smith & Standfast Salt, extracting, facilitating the process by 58 Smith & Standfast Salt, extracting, facilitating the process by 58 Smith & Standfast Salt, extracting, facilitating the process by 58 Smith & Standfast Steele Diving suit. 7	38 28 28 28 17 2 5 25 27
Smith & Price	28 28 28 17 2 5 25 27
Smith, Richard W. Brick, fire-proof 15 Smith, Riley. Timber, boring. 14 Smith, Robert. Propelling, alternate lever, &c 7 Smith, Robert. Plough, mould board 1 Smith, Robert M. Riveting metallic plates for boilers. 2 Smith, Roger Sawing wood in a circular manner 1 Smith, Roger Window spring, &c. 2 Smith, Samuel Raising water from wells 11 Smith, Samuel Raising water from wells 11 Smith, Samuel Raising water from wells 11 Smith, Samuel Raising water from wells 12 Smith, Samuel Raising water from wells 11 Smith, Samuel Raising water from wells 11 Smith, Samuel P Bedsteads. 12 Smith, Samuel P Bedsteads. 13 Smith, Silas Distilling, whiskey 13 Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Standfast Salt, extracting from sea-water 11 Smith, Standfast Salt, extracting, facilitating the process by 15 Smith & Standfast Salt, extracting, facilitating the process by 15 Smith & Standfast Salt, extracting, facilitating the process by 15 Smith & Steele. Diving suit. 7	28 28 17 2 5 5 25
Smith, Riley	28 17 2 5 5 25 27
Smith, Robert. Propelling, alternate lever, &c	17 2 5 25 27
Smith, Robert. Plough, mould board	25 25 27
Smith, Robert. Smith, Robert M. Smith, Roger. Smith, Roger. Smith, Roger. Smith, Samuel Smith, Samuel Smith, Samuel Smith, Samuel, 2d Smith, Samuel, 2d Smith, Samuel P Smith, Samuel P Smith, Silas Sm	25 27
Smith Robert M Mill stones dressing 13	25 27
Samith, Roger. Sawing wood in a circular manner. Window spring, &c. Samith, Samuel. Smith, Samuel. Smith, Samuel. Smith, Samuel. Smith, Samuel. Smith, Samuel. Smith, Samuel, 2d. Smith, Samuel, 2d. Smith, Samuel, 2d. Smith, Samuel, 2d. Smith, Samuel P. Smith & Sapp. Smith & Sapp. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Standfast. Smith, Standfast. Salt, extracting from sea-water. Smith, Standfast. Salt, extracting, facilitating the process by. Smith & Standfast. Salt, extracting, facilitating the process by. Smith & Standfast. Salt, extracting, facilitating the process by. Joining suit.	27
Smith, Roger Window spring, &c. 2	
Smith, Samuel Raising water from wells 11 Smith, Samuel Raising water from wells 11 Smith, Samuel Raising water from wells 11 Smith, Samuel, 2d 15 Smith, Samuel, 2d 16 Smith, Samuel P 17 Smith & Sapp 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Silas 17 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 18 Smith, Standfast 19 Smith,	: 6
Smith, Samuel Raising water from wells 11 Smith, Samuel Kitchens, steam, for baking 5 Smith, Samuel, 2d Moulds for casting boxes 2 Smith, Samuel, 2d Moulds for running boxes 2 Smith, Samuel P Bedsteads 17 Smith Silas Distilling, whiskey 5 Smith, Silas Smith, Standfast Salt, extracting from sea-water Salt, extracting from sea-water Salt, extracting, facilitating the process by Salt, extr	
Smith, Samuel, 2d. Smith, Samuel, 2d. Smith, Samuel, 2d. Smith, Samuel, 2d. Smith, Samuel, 2d. Smith, Samuel, 2d. Smith, Samuel P Smith & Sapp Grist mill Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Silas Smith, Standfast Smith, Standfast Salt, extracting from sea-water Smith, Standfast Salt, extracting, facilitating the process by Smith & Standfast Salt, extracting, facilitating the process by Smith & Standfast Salt, extracting, facilitating the process by Smith & Standfast Salt, extracting, facilitating the process by Smith & Standfast Salt, extracting, facilitating the process by Smith & Standfast Smith, Standfast Smith, Standfast Smith, Standfast Salt, extracting, facilitating the process by Smith & Standfast Smith, Standfast	
Smith, Samuel, 2d. Moulds for casting boxes. 2 Smith, Samuel, 2d. Moulds for running boxes 2 Smith, Samuel P. Bedsteads. 17 Smith & Sapp Grist mill 13 Smith, Silas. Distilling, whiskey. 5 Smith, Silas. Smoke, ventilator 5 Smith, Sias Thrashing machine 15 Smith, Simon Supenders, manufacturing. 21 Smith, Standfast Salt, extracting from sea-water 5 Smith, Standfast Salt, extracting, facilitating the process by 5 Smith, Standfast Salt, extracting, facilitating the process by 5 Smith & Steele. Diving suit. 7	
Smith, Samuel P. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Standfast. Salt, extracting from sea-water. Salt, extracting, facilitating the process by Smith, Standfast. Salt, extracting, facilitating the process by Smith, Standfast. Salt, extracting, facilitating the process by Supenders, manufacturing. Salt, extracting, facilitating the process by Smith, Standfast. Salt, extracting, facilitating the process by Smith, Standfast. Salt, extracting, facilitating the process by Smith & Steele. Diving suit.	
Smith & Sapp	
Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Silas. Smith, Standfast. Smith, Standfast. Salt, extracting from sea-water. Smith, Standfast. Salt, extracting, facilitating the process by. Smith, Standfast. Smith, Standfast. Smith, Standfast. Salt, extracting, facilitating the process by. Sult, extracting, facilitating the process by. Sult, extracting, facilitating the process by. Sult, extracting, facilitating the process by. Smith & Steele. Diving suit.	
Smith, Silas Distilling, whiskey Smoke, ventilator Thrashing machine Smith, Silas Suspenders, manufacturing Salt, extracting from sea-water Salt, extracting, facilitating the process by Salt, extracting, facilitating the process by Diving suit 7	25
Smith, Silas	10
Smith, Simon	13
Smith, Standfast	. 2
Sanith, Standfast	35
Smith, Standfast	. 11
Santh, Standfast	1
Smith & Steele Diving suit	11
9mith & Steele Diving suit	ı
	1 -:
Smith, Stephen C India rubber, manufacture of	
Smith & Stewart	
Brith, Theodore	
Smith, Theophilus Stoves, cooking	
Smith, Thomas Briggs	
Smith, Thomas B	
	1
Smith & Van Loane	
	1
Smith, William Linens, glazing, &c	
Smith, William Carriage gun	,
Smith, William Water wheel elevating &c. 11	
Benith, William H.	
Benith, William W Printing press construction of	
Smith, William W Raising canal hosts &c	300
Bunith, William W., and Benjamin Mul-	
likin, jr Spring door.	
Smolinski, Joseph Earthenware 15	19

Patentees.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Smylie, Edmund	Andirons	3	30
Smylie, Edmund	Andirons, repairing, &c	2	39
Smylie, Edward	Andirons, construction of	2	. 39
Snead, Albert	Press, tobacco	12	244
Snedeker, Samuel	Winnowing machine, fanning mill	1	35 31
Sneed and Carpenter	Thrashing machine	16	293
Snow, Eliphalet	Silk reel	3	88
Snow, Oliver	Auger, twisting machine	14	265
Snow, Sullivan	Tables, manufacturing	17	314
Snow, W. W.	Furnace, tug ores for	2	44
Snider, Isaac	Plough	2	18
Snider, Isaac.	Plough	2	18
Snyder, Benjamin F	Saw mill crank	14	275
Snyder, Benjamin F	Saw mill dog block	14	275
Snyder, Elisha S	Smut machine	1	24
Snyder, Elisha S	Bolting flour, machine for	13	250
Snyder, Elisha S.	Mill stone	13	257
Snyder, John	Shot, buck, manufacturing	19	336
Snyder, John.	Auger for boring, &c	14	265 217
Snyder, John, jr.	Washing machine	17	317 19 2
Snyder, Jonas.	Bridges, building	9	77
Snyder, Joseph. Snyder, Joseph.	Hats, &c., Leghorn, &c	5	127
Snyder, Samuel	Fireplace for grates	10	206
Snyder, Simon, (not Snider, as in class.).	Tanning	16	301
Somerby, Rufus	Blow pipes, table	ii	219
Somerby, Theophilus	Hydraulic machine	ii	223
Somerby, heophilus	Nails, wrought	2	54
Somner, John.	Saw set	2	57
Somner, Leonard	Springs, wooden, horizontal	10	211
Soper, Justin	Bench, shoemakers'	16	293
Soper, Joel	Winnowing machine, fanning mill	1	35
Soper and Reynolds	Distilling still, steam, & water boiler.	1 4	107
Sorel M	Copper, alloying, &c	2	41
Sorel, M Souder, Henry	Preserving iron from rust	17	317
Soule, A. W	Washing machine	17	317
Soule, Elijah	Steering ships, &c		178
Soule, John	Veneers, laying on ogee, &c		289
Soule, William	Washing machine	17	317
Southall, Thomas, and Chs. Crudgington	Iron and steel, process of manufact'g.	2	47
Southwick, Joseph	Tanning by machinery	16	309
Southwick and Richardson.	Shingles, metallic, for roofs		279
Southwick, Thomas M	Stoves, anthracite, wrought iron for	5	138
Southworth, Albert S., and J. J. Hawes.	Plate holder, self-regulating, suspens'n		326
Southworth, Daniel H	Smut machine, &c	1	25
Southworth, Elijah	Hydrometer		223
Southworth, Ezra	Inkstand		397 139
Southworth, Frederick H	Lamp, lard		133
Southworth, F. H., (not F. A., as in class.)	Water wheel current		239
Sower, Brook W	Quilting frame	17	313
Sowie and Brewer	Churn	l i	6
Sowle, George W	Rivets, for coopers'		56
Sowle, George W., and William Carsley	Whale blubber, mincing		359
Spafford, Elizabeth, (administratrix of H.		1	l
G. Spufford)	Steam and condensed air, applying		156
Spanord, George	Rags, boiling and washing, &c	3	81
Spatford, Horado G	Fireplace, close	5	127
Spatford, Horatio G	Tools, edge		(S)
Spaffor d Horatio G	Steel, cast, or iron	10	907 61
	I STARL CARL OF IPON	1 2	. Di

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Spafford, Jacob	Saw mills	14	973
Spafford, M. B	Smut machine	2	24
Spein, Edward	Churn	1	
Spalding, Joel	Cloth, folding and measuring	3	- 66
Spalding, Stephen	Fireplace	5	190
Spangler, Samuel	Smut machine, cleaning grain	1	25
(not Spurkman, as in class.)	Stamp'g or printing on fabrics, (design) Figures, stamping or printing on fab-		94
Comment Tomoshow	rics, (design)	3	. 75 573
Sparrow, Jonathan	Plane, sliding	14 5	135
Spaulding, Abiram	Ovena, elevated, &c	5	134
Spaulding, Samuel B	Stoves, elevated ovens with	5	144
Spaulding, S. B	Cooking stove	5	140
Spaulding, Thomas	Steam, generating	6	165
Spaulding, William E	Lotteries, drawing	8	180
Stratton	Rock and earth, boring apparatus	9	186
Spear, Araunah	Sleigh runner, metallic	10	210
Spear, E. P	Hats, bodies, stiffening	3	7
Spear, Phineas	Quadrant and sextant	8	180
Spear, Thomas J	Ink, indelible writing	4	100
Spedden, Robert	Tide mills	11	92
Spedden, Robert	Propelling boats, ferry	7	173
Speihlman & Miller	Nails, cutting and heading	1 2	1° 59
Spence, William J	Inking machine, &c	18	323
Spencer, Anson W	Boiler, portable	5	193
Spencer, Asa	Ruling machine	18	398
Spencer, Asa	Thimbles	2	61
Spencer, A. B	Saw dresser	2	5
Spencer, Elihu	Hulling rice, cleaning	1	14
Spencer, Henry	Thrashing and cleaning from smut	1	2
Spencer, John	Cooking stove, kitchen	5 2	143
Spencer, Joseph	Saw, gumming, &c	16	29
Spencer, William	Dying yarn from the beam	4	10
Sperry, Anson	Lathe, turning rake and hoe handles	14	269
Sperry, Anson	Wire pointing for clocks	8	183
Sperry, David	Wheels, boring hubs, &c	10	219
Sperry, David	Wheels, hubs and felloes, boring	10	214
Sperry, David	Boring and tenoning	14	260
Sperry, Ebenezer B	Wind wheel	11	25. 356
Sperry, EliSperry, Eli	Combs, manufacturing	21 21	356
Sperry, Nathaniel	Saw frames armed	14	27
Sperry, Samuel	Water wheel, &c	ii	23
Sperry, Samuel A	Plough, coulter, and shares	1	9
Sperry, William	Thrashing machine	1	3
Spicer, Asher	Winnowing clover seed	1	
Spicer, A. jr., and J. Tower	Plough	1	1
Spicer, Isaac	Washing machine	17	31
Spickard, Henry	Hulling clover seed	1 1	1
Spicker, Charles	Comba manufacturing wood	21	10: 35
Spilsbury, Francis G., Fanny Corbaux, and Alexander S. Byrne		ĺ	
anu Alexanuer S. Dyrne			113
Spinkle, Jacob	Chimneys and familiars		19
Spooner, Eliakim	Chimneys and fireplaces		9
Spooner, Eliakim	Cultivator for beans, &c	i	ĩ
Spooner, John M	Broom making	17	30
Spooner, Samuel		1	

Sprague, Eben		
Sprague, A. and N. A. Paper, making Sprague, Eben. Shearing cloth Sprague, Eleazer. Fur, cutting Sprague, L., M. Noyes, T. Lund, jr., and J. Ayres. Mortising and tenoning Sprague, William P. Propelling boats, horse power		
Sprague, Eben	5	136
Sprague, Eleazer	3	96
Sprague, L., M. Noyes, T. Lund, jr., and J. Ayres	3	87
J. Ayres Mortising and tenoning Isprague, William P Propelling boats, horse power	3	74
Sprague, William P Propelling boats, horse power	1	<u>-</u>
Spratley, Benjamin	14	271
Spraticy, Benjamin Cooking stove and galley	7 1	173
	5	143
Spring, Thomas Bog and bush cutting	14	266
	!	276
Springer, J. J.—see Holmes, R. C.	14	214
	3	94
	ĭ	H
	2	45
27	ıĩ	231
	i	18
	ıō l	210
	14	20
	14	275
Squires & White Water wheel, inclined 1	11	233
Squire, William Loom, warp, suspender	3	83
Stabler, James P	20	343
Stackhouse, Powel	5	136
	1	4
Stackpole, David Shrouds, &c., of vessels, &c	7	177
	11	226
Staebler, David	1	. 17
	9	195
Stafford, David	1	39
	5	145
	5	149
m 9. a =	20	344 17
	5	196
	15	298
Stainford, John	•	
	3	85
	13	259
	ii l	221
	3	89
	3	83
Standring, Benjamin	3	68
	15	266
Staniford & Allen Lantern	5	134
	5	136
Z	4	144
	5	134
<u> </u>	5	138
	5	146
	13	256
	10	298
	3	88 35 0
Stanley, Timothy	31	331
Stanley, Timothy Beehive	1	3
	i	36
Stansbury, Abraham O	2	94
	8	327
	2	
Stansbury, Daniel Furnace with fossil coal	5	196

^{*} Not found in classification. Patented January 7, 1835.
† In the classification the note attached to Atwater's patent should be attached to Spoor's.

			
PATEMTRES.	INVENTIONS OR DISCOVARIES.	CLASS.	PAGE.
Stansbury, Daniel	Measuring rod for packages	.8	185
Stansbury, Samuel	Candles, dipping	14	100 275
Stanton, Henry	Saw mill, carriage, steadying the lays. Harrow, corn, and grain cultivator	14	12
Stanton, Nehemiah P	Salt water, separating impurities	4	116
Stanton, Nehemiah P	Thrashing machine, horse power	.1	32
Stanton, Nehemiah P	Water wheel	11 16	231 314
Stanton, William	Power, propelling machinery	13	260
Stanton, William, jr	Wind wheel	īī	235
Staples & Cornell	Moccasins, manufacturing, &c	21	353
Staples, John	Distilling, still for	4 6	106 160
Staples, John	Steam engine, pendulum	9	200
Staples, John, jr	Tide motion applied to machinery	11	229
Staples, John, jr	Mill wheel	13	258
Staples, John, jr	Wire, drawing	2 10	63 208
Staples, J	Carriages, propelling	13	251
Staples, Norman	Plough, hill side	1	20
Staples, William A	Straw cutter	1	21
Starbuck, Benjamin, assignee of Anson	Air tirks store design	5	197
Atwood	Air tight stove, design	5 1	10
Starr & Couch	Napping cloth	3	84
Starr James	Winnowing machine	_1	35
Starr, Jehosaphat	Bread, making ship, &c	17 7	309
Starr, Jehosaphat	Propelling boats by steam	19	174 334
Starr, N. B	Garments, scale for draughting	21	352
Starr, Orson	Seeding grain, sowing	1	22
Starr, Samuel L	Grinding corn and cobs, mill for	13	252 329
Starr, Thomas W	Cheese, netting, &c	18 1	339 4
Starr, William H	Lamp burner, capillary	5	132
Start, William H	Carriages, disengaging horses from	10	208
Staub, Jacob	Gudgeon, or stop of mill spindles	13	254 25
Staubrough, Ira	Water wheel bucket, openings for ad-	1	-
	mitting water on	11	232
St. Deprest, Rennee	Propelling boats	7	172
Steames, Clifton C	Churn	1	107
Stearns, Abner	Dying silk Dying silk and finishing	4	107
Stearns & Barrett	Dying silk	4	107
Stearns, Charles	Pipes, earthen, for conveying water	15	290
Steams, Daniel	Cards, boards, smoothing	3 11	231 68
Stearns, Daniel	Water wheels Flaxseed, grinding	13	251
Stearns, Nathaniel P	Saw mill, cutting saw lays, &c	14	276
Stebbins, Lucius	Coloring maps, process, &c	18	322
Stebbins, Lucius	Coloring maps	18 17	398
Stedman, Aaron	Bedstead machine	14	272
Stedman, Simeon	Ladles, bent wood handles, &c	17	314
Stedwell, James, 3d	Crank wheel	13	2
Steece, John	Furnace, blast	2 15	43 268
Steel, Hezekiah		15 5	149
Steel, John, jr	Sugar boiling, &c	4	117
Steel, John J	Straw cutter	1	26
Steel, William	Brush, art of making	'	
Steele, Austin	Paper hanging, &c		

PATENTEES.	inventions or discoveries.	CLASS.	PAGE.
Steere, Seril(in classification Sevil)	Window binds, &c	2	63
Steere, Sevil	Window and door blinds	9	201
Steiger, Wm. T	Protracting table	8	186
Steiger, W. T	Spikes, bolts, nails,&c., cut & wrought	2	60
Steiner, Matthias.	Trunks, valises, &c	16	303
	Heat, abstracting from smoke, &c	5	130
Steinhauer, Daniel		5	143
Steinhauer, Emma	Cooking stoves, cylindrical, &c	7	
Stellwagen, Henry S	Sounding instruments		177
Stem & Wierman	Tanning, handling hides, &c	16	303
Stem, David	Sawing timber	14	277
Stem, David. (not Stern, as in classific'n)	Mill stones	13	257
Stephens, Abiel	Wire, cutting	2	63
Stephens, A. L. and E. A	Plough share, &c	1	21
Stephens, A. L. and E. A	Plough, cast iron	1	19
Stephens, Daniel	Cooking, fire apparatus for	5	126
Stephens, Henry	Coloring matter, &c	4	109
Stephens, Henry K	Steam engine, condenser for	6	158
Stephens, John	Railroad	9	197
Stephens, John	Railroad	9	197
Stephens, John	Rapids and shallow rivers, &c	9	199
Stephens, John	Steam engine, boats	6	157
Stephens, John	Steam engine and boiler	6	157
Stephens, Levi	Churn top	ľ	1
Stephens, R. and E. A	Plough	î	16
Stephenson, John	Car, railroad, passenger		207
Stephenson, M. R. and Oliver Edwards.	Lock, door, bank, safes, &c	10	49
	Lock, door	2	50
Stephenson, M. R., and Oliver Edwards. Stephenson, M. R., and Oliver Edwards; Stephenson having assigned his right,			
&c., to Edwin Holman	Lock, door, &c		49
Sterling, Wm. G	Sugar, breaking		359
Sternberg, Peter	Shoes, horse and oxen	2	59
Sternberg, Peter	Fireplace	5	196
Sternberg, Peter	Fireplace		196
Sternberg, Peter	Fireplace	5	196
Sterns, Abner, jr	Staves, heading and dressing	14	261
Stetson, Edward	Bells, household, hanging	17	309
Stetson, F. M. and John Eaton	Saw mill, setting logs on the carriage of	14	276
Stetson & Sebree	Auger, screw		265
Stevens, A. H	Hat bodies, forming	3	76
Stevens, Edwin A	Steam engines, supplying air to the	!	1
,	furnaces of	6	169
Stevens, Benjamin R. and Samuel Morse	Daguerrectune impressions, mode of	} •	
,	fixing	18	399
Stevens, Foster	Fireplace or stoves	5	127
Stevens, Francis W	Propelling, paddle wheels	7	174
		1 -	156
Stevens, John	Steam engine	6	18
Stevens, John	Valve, alide		
Stevens, John	Steam engine	6	156
Stevens, John, assignor to Goodell, Baron, Tracy, and Mosely	Gin, cotton	3	75
Stevens, John, jr., (should be "jr." in	73.11	١	
Classification)	Bellows, steam		818
Stevens, John, jr		6	151
Stevens, John, jr	Steam engine	6	156
Stevens, John H	Boxes, machine for preparing wood	l	
a	for making	14	266
Stevens, John H	Matches, friction, composition, &c	4	110
Stevens, John H	Matches, friction, preventing acciden-	ł	1
	tal ignition	4	110
Stevens, J. H., (assignee of Chauncey E.		1	1
Warren.)	Splints, match, cutting	14	960

PATENTRES.	MARALIONS OF DISCOARIES	CLASS.	PAGE.
Stevens, John H., (assignee of Chauncey			
E. Warner)Stevens, John H., (assignee of Elisha Fitz-	Boxes, wooden, turning	4	266
gerald)	Splints, match, cutting	4	280
Stevens, John H., (assignee of Robert B. Lewis)	Feathers, cleaning and drying	17	319
Stevens, Jona	Pump, suction and force	11	227 11
Stevens, Levi	Corn, grinding and shelling	13 1	251 9
Stevens, L. Munson	Window sash, &c	2	63
Stevens, Martin	Fork, four tined	1 4	19 106
Stevens, Oliver P., (assignee of Ezra Goodell)	Grist mill	13	253
Stevens, Peletiah, jr., (should be " jr." in			295
Classification)	Boots, turningBoot crimps	16 16	293
Stevens, Phineas	Spinning, flier and dead spindle for Steam engine, mode of confining the	3	90
Stevens, Robert C	steam, &c	6 13	159 258
Stevens, Robert L	Mill stones, facing Propelling wheels for steamboats	7	176
Stevens, Robert L	Steam engine, locomotive connecting the driving wheels of	6	159
Stevens, Robert L	Constructing steam ships, propelling,	7	169
Stevens, Robert L. and Francis B	Steam engines, valves, &c	6	169 196
Stevens, R. F. & L. B. Pitcher Stevens, William H	Inclined planes, ascending Grain, direction for cleaning	9	190
Stevenson, W. H.—see Booth, John. Steward, Stephen	Distilling, still for	4	106
Stewart, Adam	Saw belt and band	14	273 273
Stewart, AdamStewart, Adam	Saw, horizontal and vertical, &c Saw, rotary, compound	14 14	276
Stewart, Adam	Brick, making	14 15	282 285
Stewart, David	Flasks and patterns, &c	2 18	43 326
Stewart, James	Piano forte, sounding board	11	232
Stewart, James	Type, casting	2 18	46 329
Stewart, James A	Forges, furnace, apparatus for blowing Dying cotton in staple, &c	2	43 107
Stewart, Jared S	Spinning wheel heads, linen	3	93
Stewart, John A	Warming buildings, &c	1 5	33 147
Stewart, John A	Steam engine, rotary	6 12	161 244
Stewart, Matthew	Stoves or bakers for cooking purposes	5	138
Stewart, Matthew, jr	Stoves, &c., fire chambers of	5 5	144 144
S'ewart, Philo P		5 14	138 281
Stewart, Stephen		ii 3	221 87
Stewart, William B	Gin, saw, ginning cotton	3	76
Stewart, William N		3 1	74 21
Stickney, Gage	Hinges, butt, planing, &c	2	46 39
Stickney, John	Pump boxes	11	225
Stickney, John	Pump for ships	11	227

Patri tion .	INVENTIONS OR DISCOVERSE.	CLARS.	PAGE.
Stickney, John	Bridges	9	100
Stickney, Thomas Stigleman, Calvin, and Austin Seely	Saddles	16	98
Stiles, A. C	ing	14 17	276 316
Stiles, Chauncy, jr	Saddles, trees	16	30
Stiles, George	Floating battery, steam ship Crackers, cutting	7 17	17/ 3H
Stiles, Riverius, and Joseph S. Graves Still, Francis N	Tuyere iron, blacksmiths'	2	62
Still, James	moulding	2 5	54 144
Stillman, Abel Stillman, Alfred	Coffee roaster	5 4	126
Stillman, Alfred	Mill, sugar	13	959
Stillman, AlfredStillman, O. M	Juices, saccharine, evaporating Loom, power, stopping when west &		100
Stillman, Orsemus S	filling fails	3	80
Stillman, Richard, and Jesse Taylor Stillman, Thomas B	Clay, tempering for bricks	15 6	996 161
Stillman, Thomes B Stillman, William	ValveShearing cloth	6	16
Stillman, William	Shearing machine	3	86
Stillman, William	Lock, door, safety	3 2	88 59
Stillman, William	Veneers, ploughing	14 6	282 154
Stilwell, Daniel D	Snow plough	6	154 116
Stillwell, Stephen	Winnowing wheat	1	36
Stillwell, Stephen Stillwell, Sylvanus B	Distilling still, steam and water boiler Garments, cutting	21	107 351
Stillwell and Wandell	Propelling boats, apparatus for Beehive	7	173
Stimpson, Albert	Water wheel	11	931 329
Stimpson, Herbert H	Cooking ranges	18 5	135
Stimpson, Herbert H	Stoves, heating buildings	5	135 145
Stimpson, James	Inclined planes, ascending, &c Spark catcher, centrifugal, &c	9	196 155
Stimpson, James*Stimpson, James	Car, railroad, propelling, &c	10	997
Stimpson, James	Railroad switches, &c	9	199 199
Stimpson, James	Railroad timber	9	190 190
Stimpson, James	Railroad, turning short curves Railroad, turning short curves	9	199 199
Stimpson, James	Wheels for cars, railroad, &c	10 10	213 215
Stimpson, James	Wheels for railroad, carriages	10	995
Stimpson, James	Railroad, construction of	9	198
Stimpson, Solomon.	connecting	10	908 184
Stimpson, Solomon Stinchfield, Stephen F	Paper, manufacturing	3	86 194
Supe, Lewis	Dock, screw, floating Striker for Smiths' work	2	G
Stirrat and Whitelaw—see Finlay. Stith, Ferdinando	Flax and hemp, breaking	3	79
Stith, ObadiahStith, Obadiah	Packing cotton	12 19	226 216

^{*} See errata

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St. John, Milton W				
St. John, John R.	PATRIMINE.	'MVENTIONS OR DISCOVERIS.	CLASS.	PAGE.
St. John, John R.	St. John John I	Water wheel reacting	11	994
St. John, Josiah. Baker, metal. 5 18		Steem engine, &c. niston rods of	_	100
St. Jahn, Milton W. Lathe, turning				199
Stocker, George and Joseph Bentley. Fire arms, &c. 19 33 Stocking, Daniel	St. John, Milton W.			200
Stocking, Daniel Washing machine 17 Stockman, Christian 20 Stockunan, Christian 20 Stockunan, Jacob and Samuel L. Hopper, assignees of G. W. Simons 20 Stockton, Lucius W. 20 Stockton, Lucius W. 20 Stockton, Lucius W. 20 Stockton, Lucius W. 20 Stockton, Lucius W. 20 Stockton, Samuel B. 20 Stockton, Samuel W. 20 Stockton, Samuel W. 20 Stockton, Samuel B. 20 Stockton, William J. 20 Stockton, Samuel B. 20 Stockton, Samuel B. 20 Stockton, Samuel B. 20 Stockton, Samuel B. 20 Stockton, Samuel B. 20 Stockton, Samuel B. 20 Stockton, Samuel B. 20 Stockton, S	Stocker, George and Joseph Bentley			334
Stocking, George A Washing machine	Stocking, Daniel		17	316
Stockman, Christian Stockman, Jacob and Samuel L. Hopper assignees of G. W. Simons Pencil case, everpointed 18 32 32 32 33 34 35 35 35 35 35 35				315
Assignces of G. W. Simons	Stockman, Christian	Truss	200	348
Stockton, Moody Grist mill 13 25 Stockton, Lucius W Poles and lead bars. 10 30 Stockton, Samuel W assignee of S. K Jennings Poles and lead bars. 10 30 Stoddard, James S Anchor, cast iron 7 16 Stoddard, James S Window sash, &c. 2 2 Stoddard, Nathan A Springs, traverse. 10 21 Stoddard, Shelden Water wheel, horizontal 11 23 Stodder, David Cement for roofs of houses 4 10 Stoker, Elijah Saw, filing teeth of 2 5 Stondinger, George Rolling mill, &c. 2 5 Stone, Amasa Loom, power and taking up, &c. 2 5 Stone, Amasa Loom, power and taking up, &c. 2 6 Stone, Chester, and George S. Collins Stone, Chester, Fitch K. Collins, and George S. Collins Press, self-acting cheese 12 24 Stone, Chester, Fitch K. Collins, and George S. Collins Press, cheese, self-acting 12 24 Stone, David Stone, David Stone, David Stone, Chester True for ruptures 9 3 Stone, David Stone, John Diddiring, for bridges 9 3 Stone, John Diddiring, for bridges 9 3 Stone, John Distilling, still, steam, or stove 4 10 Stone, Samuel Dye woods, rasping 14 25 Stone, William Plates, polishing by, &c. 18 35 Stone, William, r Corden Propelling vasce, self-acting 18 35 Stone, William, r Corden Propelling vasce, self-acting 18 35 Stone, William, r Corden Propelling vasce, self-acting 18 35 Stone, William, r Corden Propelling vasce, self-acting 18 35 Stone, William, r Corden Propelling vasce, self-acting 19 30 Stone, William, r Corden Propelling vasce, self-acting 19 30 Stone, William, r Corden Propelling vasce, self-acting 19 30 Stone, William, r Corden Propelling vasce, self-acting 18 35 Stone, William, r Corden Propelling vasce, self-acting 18 35 Stone, William, r Corden Propelling vasce, self-acting 18 35 Stone, William, r Corden Propelling vasce, self-acting 18 35 Stone, William, r Co	Stockman, Jacob and Samuel L. Hopper,			١
Stockton, Lucius W. Stockton, Samuel W., assignee of S. K. Jennings				
Stockton Samuel W., assignee of S. K. Jennings. Pessaries for prolapsus uteri. 90 34 Stoddard, James S. Anchor, cast iron. 7 7 7 8 8 8 8 8 8 8		Grist mill	1	1 717
Jennings	Stockton, Lucius W	Poles and lead bars	10	200
Stoddard, James S. Anchor, cast iron. 7 6 Stoddard, James S. Window saah, &c. 2 6 Stoddard, Nathan A. Springs, traverse. 10 21 Stoddard, Shelden Water wheel, horizontal. 11 28 Stodder, David. Cement for roofs of houses. 4 10 Stoker, Elijah Stondinger, George. Rolling mill, &c. 2 5 Stondinger, George. Rolling mill, &c. 2 5 Stone, Amasa. Loom, power, and taking up, &c. 2 5 Stone, Amasa. Loom, power, and taking up, &c. 2 5 Stone, Chester, and George S. Collins. Tools, and George S. Collins. Press, elf-acting cheese. 12 24 Stone, Chester, F. K. Collins, and George S. Collins. Press, cheese, self-acting. 12 24 Stone, Chester, Fitch K. Collins, and George S. Collins. Press, cheese, self-acting. 12 24 Stone, David. Stone, David. Stone, David. Stone, David. Stone, David. Stone, David. Stone, David. Stone, David. Stone, David. Stone, John. Pide driving, for bridges. 9 19 Stone, John. Pide driving, for bridges. 9 19 Stone, John. Pide driving, for bridges. 9 19 Stone, John. Pide driving, for bridges. 9 19 Stone, Samuel. Press, cheese, self-acting. 14 26 Stone, Samuel. Press, cheese, self-acting. 14 27 27 27 27 27 27 27 2	Stockton, Samuel W., assignee of S. A.	Denneita for analamana mtoni	90	240
Stoddard, James S. Window sash, &c. 2 2 2 2 2 2 3 3 3 3	Graddard Tames G		· -	1
Stoddard, Nathan A.			نه ۱	63
Skoddard, Shelden				211
Stodder			1 22	233
Stoker, Elijah Saw, filing teeth of 2 5 5 5 5 5 5 5 5 5			1 -	101
Stondinger, George. Rolling mill, &c. 2 5 5 5 5 5 5 5 5 5				57
Stone				56
Stone, Amasa.			. 2	81
Stone, Chester, and George S. Collins	Stone, Amasa	Loom, power, and taking up, &c	2	81
Stone	Stone, Chester		17	315
Stone, Chester, Fitch K. Collins, and George S. Collins.			12	242
Stone, Chester, Fitch K. Collins, and George S. Collins.			1	
Stone, Cyrus Stone, David Stumps, extracting	Collins	Press, cheese, self-acting	12	242
Stone, Cyrus. Stone, David. Stone, David. Stone, David. Stone, David. Stone, Demman C., assignee of J. Wright Stone, D. C. Axes. 2 3 Augers, handles for. 14 5tone, James Water closet, portable. 17 31 5tone, John. Pile driving, for bridges. 9 9 9 18 5tone, John, jr. Distilling, still, steam, or stove. 4 16 5tone, Othniel. Saw mill strap. 14 27 5tone, Samuel. Dyc woods, rasping. 14 27 5tone, Samuel. Dyc woods, rasping. 14 27 5tone, William I. Plates, polishing by, &c. 18 35 16 5tone, William, jr. Hemp, breaking. 3 3 5tone, William, jr. Hemp, breaking. 3 3 5tone, William, jr. Cordage, rope. 3 3 5tone, William, jr. Cordage, rope. 3 3 5tone, William, jr. Cordage, rope. 3 5tone, William, jr. Cordage, rop			10	040
Stone				
Stone				200
Stone, D. C. Augers, handles for. 14 Stone, James Water closet, portable 17 17 17 17 17 17 17 1		A Tee	9	39
Stone, James Water closet, portable 17 31 Stone, John				265
Stone, John				318
Stone, John, jr. Distilling, still, steam, or stove. 4 Stone, Othniel Saw mill strap. 14 27 Stone, Samuel. Dyc woods, rasping. 14 27 Stone, Samuel. Dyc woods, rasping. 18 Stone, William I. Inking apparatus, gravitating 18 Stone, William, jr. Hemp, breaking. 3 Stone, William, jr. Cordage, rope. 3 Stoner—see Hoover. Storm, Samuel Hides, protecting against moths. 16 Storm, Thomas T. Churn. 1 Stoudinger, Charles Propelling vessels. 7 Stoudinger, George. Springs, carriage, steel, &c. 10 Stouvenel & Martin Glass blowing machine. 15 Stowell, Abel. Stowell, Abel. Screws, cutting wood. 2 Stowell, Abel. Screws, cutting wood. 2 Stowell, Abel. Screws, heading wood. 2 Stowell, Eb. Shearing wool. 3 Stowell, Eb. Shearing wool. 3 Stowell, Eb. Shearing wool. 3 Stowell, Eb. Shearing wool. 3 Stowell, Eb. Shearing machine. 1 Stoy, Elizabeth, executrix of Wm. Stoy. Straight, Orrin. Straight, Orrin. Straight, Orrin. Straight, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 St		Pile driving, for bridges	. 9	197
Stone				106
Stone	Stone, Othniel			276
Stone William I				268
Stone, William I.	Stone, Samuel	Theodolite		187
Stone, William, jr.				326
Stone				323
Stoner—see Hoover. Storm, Samuel	Stone, William, jr	Hemp, breaking		79
Storm, Samuel		Coruage, rope	. 3	70
Storm		Hides protecting equipet mothe	16	297
Stoudinger, Charles				5
Stoudinger, George. Springs, carriage, steel, &c. 10 Stouvenel & Martin 15 Stowell, Abel. Stowell, Abel. Stowell, Abel. Stowell, Abel. Screws, cutting wood. 2 Stowell, Abel. Screws, cutting wood. 2 Stowell, Abel. Screws, cutting wood. 2 Stowell, Abel. Screws, wood or iron, &c. 2 Stowell, Eb. Screws, wood or iron, &c. 2 Stowell, Eb. Shearing wool. 3 Stowell, Eb. Shearing wool. 3 Stowell, Eb. Shearing awool. 3 Stowell, Eb. Shearing awool. 3 Stowell, Eb. Stowell, Eb. Shearing wool. 3 Stowell, Isaiah. Fermenting and distilling spirits. 4 Stowitta, John. Thrashing machine. 1 Stoy, Elizabeth, executrix of Wm. Stoy. Medicine, cure for bite, &c. 4 If Gree power. 13 Straight, Orrin. Horse power. 13 Straight, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, Stransfield, James. Splitting skins, machine, &c. 16 Stransfield, Stransf	Stoudinger, Charles			176
Stouvenel & Martin Glass blowing machine 15 26			1	210
Stowell, Abel. Baking and cooking. 5 15				268
Stowell, Abel. Screws, cutting wood. 2 Stowell, Abel. Screw, heading wood. 2 Stowell, Abel. Screw, heading wood. 2 Stowell, Abel. Screw, wood or iron, &c. 2 Stowell, Eb. Shearing wool. 3 Stowell, Eb. Winding, spooling, &c. 3 Stowell, Eb. Winding, spooling, &c. 3 Stowell, Isaiah. Fermenting and distilling spirits. 4 Stowitts, John. Thrashing machine. 1 Stoy, Elizabeth, executrix of Wm. Stoy. Medicine, cure for bite, &c. 4 If Graph, Orrin. Horse power. 13 Strait, Hiram. Valve, balance. 6 Strange, J. W. and E Boilers, steam. 6 If Stransfield, James. Splitting skins, machine, &c. 16 36	Stowell, Abel			123
Stowell, Abel. Screw, heading wood. 2 Stowell, Abel. Screw, wood or iron, &c. 2 Stowell, Eb. Shearing wood. 3 Stowell, Eb. Winding, spooling, &c. 3 Stowell, Eb. Polisher, cylindrical. 2 Stowell, Isaiah. Fermenting and distilling spirits. 4 Stowell, Isaiah. Thrashing machine. 1 Stoy, Elizabeth, executrix of Wm. Stoy. Medicine, cure for bite, &c. 4 If Straight, Orrin. Horse power. 13 Strait, Hiram. Valve, balance. 6 16 Stransfield, James. Splitting skins, machine, &c. 16 36		Auger, gauge		265
Stowell, Abel		Screws, cutting wood	. 2	58
Stowell, Eb				58
Stowell, Eb. Winding, spooling, &c. 3 Stowell, Eb. Polisher, cylindrical 2 Stowell, Isaiah 5 Stowitts, John. Thrashing machine 1 Stoy, Elizabeth, executrix of Wm. Stoy. Straight, Orrin. Horse power. 13 Straight, Hiram. Valve, balance. 6 Strange, J. W. and E. Splitting skins, machine, &c. 16	Stowell, Abel	Screw, wood or iron, &c	-,	58
Stowell, Eb	Stowell Th	Shearing Wool		88
Stowell, Isaiah Fermenting and distilling spirits 4 16 Stowitts, John Thrashing machine 1 3 Stoy, Elizabeth, executrix of Wm. Stoy Medicine, cure for bite, &c. 4 11 Straight, Orrin 13 25 Strait, Hiram Valve, balance 6 16 Strange, J. W. and E. Boilers, steam 6 15 Stransfield, James Splitting skins, machine, &c. 16 36	Stowell Ph	Deliches evilindrical		95
Stowitts, John	Stowall Issish	Formenting and distilling minis		108
Straight, Orrin	Stowitta John	Threshing machine	1	30
Straight, Orrin	Stov. Elizabeth executrix of Wm Stow	Medicine cure for hite &c	1 4	111
Strait, Hiram	Straight, Orrin	Horse power.	13	256
Strange, J. W. and E	Strait, Hiram	Valve, balance.		163
Stransfield, James	Strange, J. W. and E.	Boilers, steam	. 6	151
45	Stransfield, James	Splitting skins, machine, &c	. 16	301
	45		•	-

Digitized by Google

		7 7 TX	
PATENSONO:	INTENTIONS OR DISCOVERSE.	CLASS.	PAGE.
Stratter, James	Baggage, securing on post coaches	10	9061
Stratton, Benjamin.	Truse	20 .	343
Stratton, B. F.—see Everett, B. C. Stratton, Charles.	Shave, for getting out wooden heeps, &	14	279
Straub, Abraham	Water proof leather	16	303
Straub, Abraham	Water wheel	11	236
Swaub, Abraham	Smut machine and garlic	1	25 25
Straub, HearyStraub, Isaac	Grist mill and flour	13	254 ·
Straub, Isaac	Grist mill, pertable	13	254
Straub, Isaac	Wheel band, mode of hanging	13	261 985
Straub, IsaacStraub, Isaac	Stoves, cooking	13 5	256 ·
Street, James H	Propelling boots	. 7	172
Street, John	Lamps, wooden, metallic bowls	5	134
Street, Joseph B	Slates, artificial	13	116° 255
Streeter & Wilbert	Mortar machine, preparing or grind-		
Statute Comment Fort Debar	ing apples	15	289
Strenge, George and Jacob Rohrer Strickland, Horace	Stoves, cooking, draught, &c., in	13 4	256 143
Strickler, John—see Cook, J.	bioves, cooking, crace in acci, in	•	140
Strobel, Daniel, jr	Sirup and came juice concentrated by		
Smakel Daniel in Johand he Daniel	steam	4	114.
Strebel, Daniel, jr., (should be Daniel Strobel, jr., in classification)	Blowing wind for forges	11	219
Strede, Joseph C	Water wheel, reacting	11	233
Stroebel, John C	Carriages, construction of	10	988
Strong, Charles	Loom, heddles, metallic	3 2	80 45
Strong, Eben B	Ovens, baker	5	134 ·
Strong, Elisha	Locks, percussion, side, for rifles	19	335
Strong, E. B	Grater	17	313
signces of Walter Hunt	Nails, brads, &c., cutting	2	51
Strong, John	Engine, hydraulic	11	223
Strong, Justin E	Lightning conductors, &c	20 8	343 185
Strong, Kellog	Gridiron, rotary	5	130
Strong & Kellogg	Rifles	19	336
Strong & Moody	Hulling rice, &c	1	14
Strong & MoodyStrong & Moody	Hulling rice, polishing	i	15
Strong, Stephen	Fruits, &c., drying	1	19
Strong & Sterry	Fire arms, many chambered	1 19	12 334 -
Strong, Theodore F	Lamps, improvement in	5	132
Strong, Theodore F	Lamp, night	5	139
Stroop, Jacob	Hydrants	11	225 1 222
Stroop, JacobStroop, Jacob	Hydrants	·11	398
Stroop, Jacob, and John Esteale	Box, trap, for catching animals	22	357
Stroub, Jacob	Grist mill and coffee-mill	13	954
Stubbs & Bonner	Ruling machine, hand	18 15	367
Stabbs & Parsons	Steam engine	6	156
Stubbs, Wm	Water wheel, tide	11	994
Stuart, David, and Charles C. Lloyd Stuart, D.—see Cresson, W. P.	Hinges, castings	2	46
Stuart, Frederick A	Grain, machine for cleaning	1	19
Stnart, Frederick A	Thrashing machine.	1	38
Stuart, Frederick A	Forges, blacksmiths'	9	43
Steam, Richard	Chimneys		196

Sullivan, John L, (not Jno. S., as in class.) Sullivan, John L. Pavessent, camented, for streets. 9 Sullivan, John L. Pavessent, camented, for streets. 9 Sullivan, John L. Pavessent, camented, for streets. 9 Sullivan, John L. Pavessent, camented, for streets. 9 Sullivan, John L. Pavessent, camented, for streets. 9 Sullivan, John L. Poppelling control of the current of the			\	-
Sturdevant, Lewis G. Gin, cotton. 3 Sturdevant & Starr. Types, casting machine, &c. 18 Sturdevant S., assigne of E. White. Types, tasting machine, &c. 18 Sturdevant S., assigne of E. White. Types, tasting machine, &c. 18 Sturdevant S., assigne of E. White. Types, tasting machine, &c. 18 Sturdevant & Holmes. 11 Studen, Robert. 12 Suldis Benjamin. Saddles. 11 Suldivan, John L. 12 Sullivan, John L. 14 Sullivan, John L. 15 Sullivan, John L. 16 Sullivan, John L. 17 Sullivan, John L. 17 Sullivan, John L. 18 Sullivan, John L. 18 Sullivan, John L. 19 Sulliv	PATRIMINA.	INVENTIONS OR DISCOSSISSE	CLASS.	PAGE.
Sturdevant & Starr. Sturdevant & Start. Sturdevant & Start. Sturdevant & Holmes. Types, rabber, &c. 18 889 Sturdevant & Holmes. Louing grass. 1 11 Sugden, Robert. Sulis, Benjamin. Saddles. Sturdivant & Holmes. Sulivan, John L. Chimneys, preventing smoking, &c. 5 Sulivan, John L. Pavement, cemented, for streets. 9 18 Sulivan, John L. Pavement, cemented, for streets. 9 18 Sulivan, John L. Pavement, cemented, for streets. 9 18 Sulivan, John L. Pavement, cemented, for streets. 9 18 Sulivan, John L. Pavement, cemented, for streets. 9 18 Sulivan, John L. Pump, drawing and foreing. 11 286 Sulivan, John L. Propeller, sub marine. 7 7 Sulivan, John L. Propelling boats by application of condense air. 7 Propelling boats by application of condense air. 7 17 Sulivan, John L. Propelling boats by application of condense air. 7 17 Sulivan, John L. Propelling paddles, ships. 7 17 Sulivan, John L. Propelling paddles, ships. 7 17 Sulivan, John L. Tow boats, steam, &c. 7 17 Sulivan, John L. Boilers, steam engine. 6 15 Sulivan, John L. Boilers, steam engine. 6 15 Sulivan, John L.	Stuart, R. L., and A			400
Sturdevant S. pasignee of E. White. Sturdevant S. pasignee of E. White. Sturdevant S. pasignee of E. White. Types, rubber, &c	Stundament Famin Cl			
Sturdevant & Holmes			-	
Sturden & Holmes				
Suglivan Sadles				
Sulivan, John L, (not Jno. S., as in class.) Sullivan, John L, (not Jno. S., as in class.) Sullivan, John L, (not Jno. S., as in class.) Sullivan, John L.				
Sullivan, John L. Pavessen, camented, for streets. 9 197 198 1				
Sullivan, John L, (not Jno. S., as in class.) Spinal diseases, apparatus for the cure of			5	125
Sullivan, John L. Pavement, camented, for streets. 9 93 93 93 93 93 93 93				
Sullivan John L.			20	843
Sullivan, John L	Sullivan, John L	Pavement, cemented, for streets		197
Sullivan, John L. Pump, city, supply. 11 296 Sullivan, John L. Pump, drawing and forcing. 1 296 Sullivan, John L. Propeller, sub marine. 7 173 Sullivan, John L. Propelling boats by application of condensed air. 173 Sullivan, John L. Propelling boats, double steam wheel for 173 Sullivan, John L. Propelling boats, double steam wheel for 173 Sullivan, John L. Propelling paddles, ships. 7 173 Sullivan, John L. Tow boats, steam, dc. 7 173 Sullivan, John L. Tow boats, steam, dc. 7 178 Sullivan, John L. Boilers, steam engine. 6 152 Sullivan, John L. Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan, Sullivan,	Sullivan, John L	Pavement, cemented, for streets		197
Sullivan, John L. Pump, drawing and forcing 11 236				
Sullivan, John L				2.2
Sullivan, John L.				
Sullivan, John L.		Propeller, sub marine	7	172
Sullivan, John L. Propelling boats, double steam wheel for Sullivan, John L. Propelling paddles, ships. 7 173 Sullivan, John L. Tow boats, steam, &c. 7 175 Sullivan, John L. Tow boats, steam, &c. 7 178 Sullivan, John L. Boilers, steam engine. 6 152 Sullivan, John L. Boilers, steam engine. 6 152 Sullivan, John L. Boilers, steam engine. 6 152 Sullivan, John L. Steam engine. 6 152 Sullivan, John L. Steam engine. 6 152 Sullivan, John L. Steam engine. 6 152 Sullivan, John L. Steam engine, rotary 6 160 Sullivan, John L. Regulator, wheel and spur gear. 13 Sullivan, John L. Burners, water 5 194 Sullivan, John L. Burners, water 5 194 Sullivan, John L. Burners, water 5 194 Sullivan, Wm. C. Motion, rotary, double, &c. 13 Summers, Ralph Smut machine, &c. 1 32 Summers, Ralph Smut machine, &c. 1 32 Summers, Ralph Smut machine, &c. 1 32 Summers, Ralph Summers, Palmer. Chimney coals. 1 234 Summer, Palmer, and Peter Naylor. Iron, protecting from oxydation 4 194 Sutton, Panien. 1 18 Sutton, Benjamin Hulling clover seed 1 18 Sutton, Benjamin Hulling clover seed 1 18 Sutton, David Hulling clover seed 1 18 Sutton, Noah. Iron splaying, &c. 2 45 Sutton, Noah. Iron splaying, &c. 2 45 Sutton, Noah. Iron splaying, &c. 2 45 Sutton, Noah. Iron splaying, &c. 2 45 Sutton, Noah. Iron splaying, &c. 2 45 Sutton, Noah. Iron splaying, &c. 2 45 Sutton, Noah. Iron splaying, &c. 2 45 Sutton, Noah. Iron splaying, &c. 2 47 Sutton, Noah. Iron splaying, &c. 2 47 Sutton, Noah. Iron splaying, &c. 3 3 3 3 3 3 3 3 3	Sumvan, John L	Propeiling boats by application of con-	7	179
Sollivan, John L. Propelling paddles, ships. 7 173 174 175 174 175 174 175	. Sullima Taka T	Departing bears, double store wheel	•	1/3
Sollivan, John L.	Suntan, John. L		7	172
Sullivan, John L.	Sullivan John I.	Propelling paddles shine		
Sullivan, John L.				
Sallivan, John L				
Sullivan, John L				
Sullivan, John L. Soilers, steam engine. 6 182 Sullivan, John L. Steam engine. 6 186 Sullivan, John L. Steam engine. 7 180 Sullivan, John L. Metallurgy. 2 51 Sullivan, John L. Regulator, wheel and spur gear. 13 280 Sullivan, John L. Burners, water. 5 194 Sullivan, John L. Furnace for anthracite. 5 186 Sullivan, Wm. C. Motion, rotary, double, &c. 13 289 Summers, Ralph. Smut machine. &c. 1 324 Summers, Ralph. Smut machine. 1 244 Summers, Wm. M. Mile mark, cast iron. 9 197 Sumney, Peter. Gold washing, &c. 2 45 Sumner, Palmer. Chimney coals. 5 194 Sumner, Palmer, and Peter Naylor. Iron, protecting from oxydation. 4 169 Sutherland, Daniel. Stoves and fireplace. 5 144 Sutherland, Richard P. Thrashing machine. 1 31 Sutton, Benjamin. Hulling clover seed. 1 1 Sutton, David. Hats by steam. 3 78 Sutton, Noah. Iron splaying, &c. 2 47 Sutton, William. Churn, double dash. 1 7 Sutton, William. Churn, double dash. 1 7 Sutton, Thomas Pump rotary. 6 160 Swain, J. H. Swain, and J. Swain. Lee board. 7 7 Swain, Swain, Israel. Hats, planking, &c. 3 76 Swain, J. H. Swain, and J. Swain. Lee board. 7 7 7 Swain, Swain, Swain, Lee board. 7 7 7 7 7 Swain, Swain, Swain, Swain, Mm. W. Candles, moulding, sparm. 4 101			_	152
Sullivan, John L. Steam engine. 6 156 Sullivan, John L. Steam engine, rotary. 6 160 Sullivan, John L. Metallurgy. 2 51 Sullivan, John L. Burnera, water. 5 124 Sullivan, John L. Furnace for anthracite. 5 124 Sullivan, John L. Furnace for anthracite. 5 13 Sullivan, John L. Motion, rotary, double, &c. 13 259 Sullivan, John L. Motion, rotary, double, &c. 13 259 Sullivan, John L. Furnace for anthracite. 13 259 Sullivan, John L. Motion, rotary, double, &c. 13 259 Sullivan, John L. Motion, rotary, double, &c. 13 259 Sullivan, Bonam Thrashing machine, &c. 1 29 Summers, Ralph. Sunter, Aughtham 9 197 Summers, Ralph. Mile mark, cast iron. 9 197 Summer, Palmer. Chimey coals. 2 45 Sumner, Palmer. Laths, m			6	152
Sullivan, John L.			6	156
Sullivan, John L.		Steam engine, rotary	6	160
Sullivan, John L. Burners, water. 5 124 Sullivan, Wm. C. Motion, rotary, double, &c. 13 289 Summers, Abram W. Thrashing machine, &c. 1 32 Summers, Ralph. Smut machine. 1 24 Summers, Ralph. Water wheel, re-action. 9 197 Summer, Ralph. Water wheel, re-action. 9 197 Summer, Pelmer. Gold washing, &c. 2 45 Sumner, Palmer. Chimney coals. 5 124 Sumner, Palmer. Laths, metallic, for fire proof ceilings. 2 45 Sumner, Palmer. Laths, metallic, for fire proof ceilings. 2 45 Sumner, Palmer. Laths, metallic, for fire proof ceilings. 2 45 Sumpton, Thos. W. A. Gold washing, &c. 2 45 Sutherland, Daniel. Stoves and fireplace. 5 14 Sutton, Benjamin. Tread wheel, railway. 13 321 Sutton, Benjamin. Hulling clover seed. 1 18 Sutton,		Metallurgy		51
Sullivan, John L. Furnace for anthracite 5 128 Sullivan, Wm. C. Motion, rotary, double, &c. 13 259 Summers, Abram W. Thrushing machine, &c. 1 24 Summers, Ralph Sumt machine 1 24 Summers, Ralph Water wheel, re-action 11 234 Summers, Wm. M. Mile mark, cast iron 9 197 Summer, Peter Gold washing, &c. 2 45 Sumner, Palmer Chimmey coals 5 124 Sumner, Palmer Chimmey coals 5 124 Sumner, Palmer, and Peter Naylor Iron, protecting from oxydation 4 169 Sutherland, Daniel Stoves and fireplace 5 144 Sutherland, Paniel Stoves and fireplace 5 144 Sutherland, Richard P Thrashing machine 1 31 Sutton, Benjamin Hulling clover seed 1 18 Sutton, Jand J Sutton, Melancthon Coopering, working off tool 14 Sutton, Noah Iron splaying, &c. 2 47 47 Sutton, William Churn, double dash 1 38 38 39 39 30 30 30 30 30 30				260
Sullivan, Wm. C. Motion, rotary, double, &c. 13 258 Summers, Abram W. Thrashing machine, &c. 1 32 Summers, Ralph. Sumt machine. 1 24 Summers, Ralph. Water wheel, re-action. 11 234 Sumner, Ralph. Mile mark, cast iron. 9 197 Sumner, Palmer. Gold washing, &c. 2 45 Sumner, Palmer. Chimney coals. 5 124 Sumner, Palmer. Chimney coals. 5 124 Sumner, Palmer. Laths, metallic, for fire proof ceilings. 2 49 Sumner, Palmer. Laths, metallic, for fire proof ceilings. 2 49 Sumner, Palmer. Laths, metallic, for fire proof ceilings. 2 49 Sumner, Palmer. Laths, metallic, for fire proof ceilings. 2 49 Sumner, Palmer. Laths, metallic, for fire proof ceilings. 2 49 Sumner, Palmer. A Gold washing, &c. 2 49 Suthan, Thos. A Bookbinding. 18				
Summers				
Summers, Ralph			_	122
Summers, Ralph Water wheel, re-action 11 234				
Summers, Wm. M. Mile mark, cast iron. 9 197				
Sumner, Peter	Summers Wm M		_	
Sumner, Palmer. Chimney coals 5 124				
Summer, Palmer. Laths, metallic, for fire proof ceilings 2 48				124
Summer, Palmer, and Peter Naylor. Iron, protecting from oxydation 4 168 Sumpton, Thos. W. A Gold washing, &c. 2 45 Sutherland, Daniel Stoves and fireplace 5 144 Sutherland, Richard P Bookbinding 18 321 Sutton, Benjamin Tread wheel, railway 13 260 Sutton, Benjamin Hulling clover seed 1 18 Sutton, David Hats by steam 3 78 Sutton, Melancthon Stone cutting 15 Sutton, Melancthon Coopering, working off tool 14 Sutton, Noah Iron splaying, &c 2 47 Sutton, Thomas Excavating, scrapes for repairing roads 19 Sutton, William Steam engine, rotary 11 Sutton, William Steam engine, rotary 16 Suydam, Christopher Beehives 1 Swaim, James Savain, Albertus Cooking stove, cast iron 5 142 Swain, Israel Hats, planking, &c 3 78 Swain, J. H. Swain, and J. Swain Lee board 7 Swain, Wm W Candles, moulding, sparm 4 10 10 10 10 10 10 10			2	49
Sutherland, Daniel				109
Sutherland, John T. Bookbinding 18 321 Sutherland, Richard P. Thrashing machine 1 31 Sutton, Benjamin Tread wheel, railway 13 260 Sutton, David Hulling clover seed 1 18 Sutton, David Hats by steam 3 78 Sutton, J and J Stone cutting 15 296 Sutton, Melancthon Coopering, working off tool 14 296 Sutton, Noah Iron splaying, &c 2 47 Sutton, Thomas Excavating, scrapes for repairing roads 9 195 Sutton, Thomas Pump rotary 11 227 Sutton, William Steam engine, rotary 1 1 Sutton, William Steam engine, rotary 6 160 Suydam, Christopher Beehives 1 4 Swain, James Astronomical machine 8 183 Swain, Israel Hats, planking, &c 3 78 Swain, J. H. Swain, and J. Swain Lee board 7 171	Sumpton, Thos. W. A	Gold washing, &c		45
Sutherland, Richard P.			ا ــــا	144
Sutton, Benjamin Tread wheel, railway 13 Sutton, Benjamin Hulling clover seed 1 Sutton, David Hats by steam 3 Sutton, J and J Stone cutting 15 Sutton, Melancthon Coopering, working off tool 14 Sutton, Samuel G Iron splaying, &c 2 Sutton, Thomas Pump rotary 11 Sutton, William Churn, double dash 1 Suydam, Christopher Beehives 1 Swaim, James Astronomical machine 8 Swain, Albertus Cooking stove, cast iron 5 Swain, Israel Hats, planking, &c 3 Swain, G. H. Swain, and J. Swain Lee board 7 Swain, Wm. W Candles, moulding, sporm 4			1	
Sutton, Benjamin				
Sutton, David. Hats by steam. 3 78 Sutton, J. and J. Stone cutting. 15 296 Sutton, Melancthon. Coopering, working off tool. 14 28 Sutton, Noah. Iron splaying, &c. 2 47 Sutton, Samuel G. Excavating, scrapes for repairing roads 9 195 Sutton, William. Churn, double dash. 1 7 Sutton, William. Steam engine, rotary. 6 160 Suydam, Christopher. Beehives. 1 4 Swain, Albertus. Cooking stove, cast iron. 5 142 Swain, Israel. Hats, planking, &c. 3 78 Swain, J. H. Swain, and J. Swain. Lee board. 7 171 Swain, Wm. W. Candles, moulding, sperm. 4 10				
Sutton, J. and J. Stone cutting. 15 296 Sutton, Melancthon Coopering, working off tool 14 267 Sutton, Nah. Iron splaying, &c. 2 47 Sutton, Samuel G. Excavating, scrapes for repairing roads 9 195 Sutton, Thomas Pump rotary 11 227 Sutton, William Steam engine, rotary 6 160 Suydam, Christopher Beehives 1 183 Swaim, James Astronomical machine 8 183 Swain, Albertus Cooking stove, cast iron 5 142 Swain, Israel Hats, planking, &c. 3 76 Swain, L. H. Swain, and J. Swain Lee board 7 7 Swain, & Skinper Nails and brads cutting 2 5 Swain, Wm. W Candles, moulding, sporm 4 101			1	
Sutton, Melancthon Coopering, working off tool 14 Sutton, Noah Iron splaying, &c 2 Sutton, Samuel G. Excavating, scrapes for repairing roads 9 Sutton, Thomas Pump rotary 11 Sutton, William Churn, double dash 1 Sutton, William Steam engine, rotary 6 Suydam, Christopher Beehives 1 Swaim, James Astronomical machine 8 Swain, Albertus Cooking stove, cast iron 5 Swain, Israel Hats, planking, &c 3 Swain, J., H. Swain, and J. Swain Lee board 7 Swain & Skinper Nails and brads cutting 2 Swain, Wm Candles, moulding, sperm 4				
Sutton, Noah Iron splaying, &c 2 47 Sutton, Samuel G Excavating, scrapes for repairing roads 9 195 Sutton, Thomas Churn, double dash 1 227 Sutton, William Churn, double dash 1 3 Sutton, William Steam engine, rotary 6 160 Suydam, Christopher Beehives 1 4 Swain, James Astronomical machine 8 183 Swain, Israel Cooking stove, cast iron 5 142 Swain, J., H. Swain, and J. Swain Lee board 7 171 Swain & Skinper Nails and brads cutting 2 53 Swain, Wm. W Candles, moulding, sperm 4				
Sutton, Samuel G. Excavating, scrapes for repairing roads 9 Sutton, Thomas Pump rotary 11 Sutton, William Churn, double dash 1 Sutton, William Steam engine, rotary 6 Suydam, Christopher Beehives 1 Swain, James Astronomical machine 8 Swain, Albertus Cooking stove, cast iron 5 Swain, Israel Hats, planking, &c 3 Swain, J., H. Swain, and J. Swain Lee board 7 Swain & Skinper Nails and brads-cutting 2 Swain, Wm. W Candles, moulding, sporm 4				
Sutton, Thomas Pump rotary 11 227 Sutton, William Churn, double dash 1 Sutton, William Steam engine, rotary 6 Suydam, Christopher Beehives 1 Swain, James Astronomical machine 8 Swain, Albertus Cooking stove, cast iron 5 Swain, Israel Hats, planking, &c 3 Swain, J., H. Swain, and J. Swain Lee board 7 Swain & Skinper Nails and brads-cutting 2 Swain, Wm. W Candles, moulding sperm 101		Excavating scrapes for repairing roads		
Sutton, William. Churn, double dash. 1 Sutton, William. Steam engine, rotary. 6 Suydam, Christopher. Beehives. 1 Swaim, James. Astronomical machine. 8 Swain, Albertus. Cooking stove, cast iron. 5 Swain, Israel. Hats, planking, &c. 3 Swain, J., H. Swain, and J. Swain. Lee board. 7 Swain, & Skinper. Nails and brads cutting. 2 Swain, Wm. W. Candles, moulding sporm. 4	Sutton, Thomas			227
Sutton, William Steam engine, rotary 6 160 Suydam, Christopher Beehives 1 4 Swaim, James Astronomical machine 8 183 Swain, Albertus Cooking stove, cast iron 5 143 Swain, Israel Hats, planking, &c. 3 76 Swain & Skinper Nails and brads cutting 2 53 Swain, Wm Candles, moulding sperm 4 10	Sutton, William	Churn, double dash	1	7
Suydam, Christopher		Steam engine, rotary	6	160
Swain, Albertus Cooking stove, cast iron 5 Swain, Israel Hats, planking, &c 3 Swain, J., H. Swain, and J. Swain Lee board 7 Swain & Skinper Nails and brads cutting 2 Swain, Wm. Wm Candles, moulding sporm 4		Beehives	1	.4
Swain, Israel			8	
Swain, J., H. Swain, and J. Swain. Lee board. 7 171 Swain & Skinner. Nails and brads cutting. 2 53 Swain, Wm. W. Candles, moulding sperm. 4 101				
Swain & Skinner	Swain, Israel	riaus, planking, ozc		
Swain, Wm. W				
	Swainson, John	Pistols, metallic, for steam, &c.		154

PATENTEES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE
Swan, Lansing B	Mineral water, soda fountain	4	11
Swann, John	Plough	1	1
Swann, John B	Carriage	10	9
Swann, John B		10	9
wann, Jonathan	Plough, cast iron cutter for	1	_!
Swanzey, John H. B	Stoves	5	I
Swart, Adam	ChurnPlough	1 1	1
Swartwout, James	Distilling	4	10
Swazey, Benjamin	Napping cloth	3	18
Sweeny, Robert		ĭ	ì
Sweet, John	Sawing timber, &c	14	2
Sweet, John	Fireplace and andirons	5	19
Sweet, John	Beehive	1	l
Sweet, Joseph	Staves, dressing	14	26
Sweet, Peleg	Brick striker	15	26
Sweet, Samuel, jr		1	١.
Sweet, Sidney A	Pulp sifter	3	
Sweet & Stedman			26
Sweetzer, Washington	Trunks, travelling	16	36
Sweeney, George	Saw mills, apparatus, &c	14	27
Swetland, Uriah		20	10
Swett, Benjamin	Baths, medicated	1 22	34 35
Swett, Leonard T	Gunpowder, corning, &c	17	31
Swett, Nahum		3	3
Swett, Samuel, jr	Spark arrester	6	15
Swett, Samuel, jr		7	17
Swett, Samuel, jr	Washing machine	17	31
Swett, Samuel, jr	Spark arrester	6	154
Swett, Samuel, jr	Feathers, dressing and cleaning	17	31
Swett, Samuel, jr	Ironing clothes	17	31
Swett, Samuel, jr	Washing machine	17	31
Swift, Beriah		3	8
Swift, Beriah		3	8
Swift, Beriah	Shearing cloth	3	8
Swift, Beriah			84 26
Swift, Beriah	Dye woods, cutting Dye woods, cutting and shaving	14	20 26
Swift, Beriah Swift, Beriah	Cotton mill	13	. 25
Swift, Beriah	Rifle for sharpening scythes	i	~~~
Swift, Nathan	Shingles, sawing	14	27
Swift, Wm., and Wm. Ottiwell		1	30
Swimley & Everhart			29
Swope, Jacob		15	28
Sykes & Conradt	Spinning wool	3	94
Sylvester, Nathaniel		18	32
Syme, John M			19
Syme, John M		9	193
Symington, Thomas			290
Symington, Thomas		7	16
Syms, John	Moccasins, manufacturing water proof	21	353
Tabb, George			199
Caber, Benjamin	Blubber, mincing whales'		16 6
Caber, William B	Bobbin and flier, &c		14
Cabor, Bartholomew W	Stove, heating irons for tailors		28 28
Packels, John G	Staves, dressing, heading, & jointing.		8
Faft, Frederick A		3	8
Faintor, William, and Harlow S. Or			19
Falbot, Edward A	Atmospheric engines		15
Palhasi Taman No.	Bands, key for tobacco casks		3

PATENTRES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Talbot, John	Railroad turnout	9	196
Talbott, Samuel	Steam valves	6	16
Talbott, Samuel	Brick press	15	28
Talbot, Sylvester W	Nursing cup	20	34
Talbot, Sylvester W	Ruffles, plaiting	21	35
Talcott, Jared G	Brick press, bridle	15	28
Talcot and McCulloch	Stove, Columbian	5	13
Talley, George R	Shave, double operating	14	27
Fallman, Jedediah	Pendulum, power	13 1	25
Fallock, William	Winnowing wheat	i	3
Falmage, Ezra	Distilling	4	10
Falmage, Ezra	Distilling, still for	4	10
Talson, Jos. F., (not Tolson, as in class.)	Springs for railroad trucks	10	21
Tam, Lemuel	Harrow teeth, fluke	1	1
Tam, Lemuel	Harrows, cleave	1	1 1
Tanner, Archibald	Inclined planes, double, &c	9	19
Tanner, Archibald	Flax and hemp machine	3	7
Tanner, Henry	Etching end pieces of bank notes	18	32
Tanner, William A	Tally, machine for keeping	8	18
Taplin, John A		13	25
Taplin, John A., and Eddy Walden		1	3
Tarbox and Kneeland		1 1	2
Tarbox, Zena and Levi B	Sink, cast iron	17	31 13
Fasker, John		5 11	22
Tasker, Thomas T	Hydrants Hemp, breaking and cleaning	3	7
Tatham, Benjamin, jr., and Henry B.,			•
assignees of John & Charles Hanson.	Pipes, or tubes of lead, &c	2	5.
Tatham, Geo. N., and Benj. Tatham, jr.	Pipes, or tubes of lead, &c	2	5.
Tatham, J., and D. Cheetham		3	7
Tatham, William		7	17
Taylor, Aaron		11	22
Taylor, Abm	Propelling boats	7	17
Taylor, Alva B., (not Tyler, as in class.)	Printing press, double & single Napier	18	32
Taylor, Anthony	Plough		1
Taylor, Anthony	Plough, cast iron	1 1	1
Taylor, Autin	Mill stones, cooling	13	25 17
Taylor, Benjamin		7	12
Taylor, Benjamin		3	7
Taylor and Brown	Hats, manufacturing	14	27
Faylor, Caleb Faylor, Charles B	Planing and grooving		-i
Faylor and Cowles	Corn sheller	lî	-
Taylor, D*	Cloth, manufacturing	_	6
Taylor, Ezra	Straw cutter	ì	2
Faylor, E	Straw cutter	ī	2
Taylor, Henry	Plough	1] 1
Faylor, Henry R	Cradle rockers	17	31
Taylor, Isaac	Lamps, candle		13
Taylor, Israel	Dying hats	4	10
Taylor, James	Stoves	5	13
Faylor, Jeremy	Bit stocks		26
Taylor, Jesse	Water wheel	111	23
Paylor, Jesse	water wheel	11	23
l'aylor, Jesse—see Sullman.	TT-two colorings	1	۱ -
Faylor, Joel	Hats, coloring	4	3
Caylor, John	Anvils, machine for making		
Paylor, John	Washing machine	17	31 10
Taylor, John	Distilling worm, condensing, &c	3	8
Taylor, John	Napping cloth, teazing, &c		11
Faylor, John G Faylor, John, and John Smith	Salt, manufacturing		1
- a j :v:, -v:::, and -viin Smith	napping machine		. 8

Patentees.	INVENTIONS OR DISCOVERIES.	CLASS.	PACE
Caylor and Martin	Buildings for a school room	9	¥
Taylor, Nathan	Mill stones, bush	13	9
Faylor, Richard M	Rudders, hanging and securing	.7	
Faylor, Samuel	Brushes, trimming the bristles of, &c.	17 3	7
Paylor, Samuel	Loom, brushes for dressing warps Brushes, filling blocks with bristles for	17	
Taylor, Theodore	Saw set	2	1
Paylor, Timothy	Harness, hames, fastening, &c	16	9
Taylor, William	Crimping tool	16	99
Taylor, W. H. and A. P. Norton	Vice, parallel, bench	2	-0
Paylor, Wm. L	Grist mill	13	25 13
Paylor, Wm. S Paylor & Woodhead	Diving dress	7	-4
Fazewell, Leonard	Moulds for casting boxes	2	i
Pengue, Abner	Ploughs	ĩ	·
real, Oliver	Excavating earth under water	9	19
Teal, Oliver	Excavator, scraper, metallic	9	1
Cenle, John C.	Smoke conductor	5	15
Feall, Ausel.	Clay and mortar, mixing, &c	15	2
Peall, Horace ♥ Peasdale, James C	Ruling machine for paper	5 18	M
reeple, Andrew H	Metallic plates, punching holes in	2	4
rees, Jacob	Planing, edging, and grooving, &c	14	2
Feeter, Isaac	Plough, hill side	î	3
Pefft, Jarius S	Plough	1	1
Pefft, Jarius S.	Plough	1	
Peisseir, J. A.	Salt, manufacturing	4	11
Teller, Henry R.	Crist will and spiral mater wheel	7	1
remple, Alexander	Grist mill and spiral water wheel	13	25 18
Templeman, John	Quadrant, trigonometrical Bridges	8	19
Templeman, John	Bridges, chain	9	19
Penant & Eaton	Thrashing machine	Ĭ	1
Penney, Amos T.	Washing machine	17	31
Fenny, Danie	Hats, bodies, machinery	3	1
Fenny, Oliver	Cotton wadding, apparatus for drying		١.
Fentler, Aaron A	Garments, measuring, &c	3 21	35
Ferrell, Artemas	Fireplace, building, &c	5	15
Ferrell, S. R	Blood, equalizing the	4	Ñ
Ferry, Eli	Clocks, wooden wheel, 30 hours	8	16
Ferry, Eli	Clocks, wooden wheel, 30 hours	8	16
Ferry, Eli	Clocks, wooden wheel, 30 hours	8	11
Ferry, Eli	Clocks, wooden wheel, 30 hours	8	18
Perry, Eli Perry, Eli	Clocks, wooden wheel, 30 hours	8	18
Ferry, Eli	Clocks, 30 hours of wooden	8	18
Terry, Eli	Clocks, wooden wheel	8	i
Terry, Eli	Clocks	8	18
Terry, Jabez C.—see Merrick, S.	_	_	
Ferry, Silas B., (not G. as in Class)	Lamps, lard	5	13
Perry, Silas B	Spring, combined spiral, for clocks	18	18
Ferry, William D	Packing screw, inverted	12	19
l'hacher, David	Salt works, plan for, &c	4	lii
Thacker, Barnabas, jr	Plough	i	l i
l'hatcher, Barnabas	Thimbles, ships	7	ľ
l'hatcher, George	Hats, manufacture	3	
Phatcher, George H	Tires, setting from wheels	10	8
Thatcher, John M	Straw cutter		1
	C1182328C4CH.	8	
Phaxter, Daniel	Water wheel		ğ

	·		
Patenfrit:	inventions or discoveries.	CLASS.	PAGE .
Theyer, Amos	. Water power	11	229
Thayer, Amos, jr	. Steam wheel	6	163
Thayer, Amos, jr		6	156
Thayer, Ansel	Boots and shoes, manufacturing	16	294
Thayer, AugustusThayer, Edwin	. Pumps	11 10	225 206
Thayer, Elijah		16	294
Thayer, Elijah	. Boots and shoes, manufacturing	16	294
Thayer, George W	. Bridges, wooden	9	192
Thayer, Joel F	Locks and latch for doors	2	50
Thayer, Solomon	Pendulum mill	13	259 226
Thayer, Solomon	Saw mill, head and tail blocks of	111	275
Theal, Isaac.		14	
	sels	7	175
Thistle, Hezekiah L	. Fire-arms	19	334
Thistle, Hezekiah L	Saddles for removing the sick	16	299
Thomas, Christian		1	990
Thomas, Benjamin	Water wheel	11 18	230 324
Thomas, D. V.	Saw mill, setting the foot block of, &c.		276
Thomas, Enoch	Truss for hernia	20	344
Thomas, Enoch	. Splints for fractures	20	343
Thomas, Enoch	Churn	į į	-3
Thomas & Fuller	Blower, coal grate		123
Thomas & Fuller	Fenders, fire, shaping	5 10	126 214
Thomas, Hercules	Wheel hubs, Herculean carriage	10	214
Thomas, Hopkin			214
Thomas, Hopkins	. Coal, breaking and screening		125
Thomas, James R			334
Thomas, John	Architecture, naval.	7	167
Thomas, John		7	167 167
Thomas, JohnThomas, John	Blocks and wedges for raising, &c	7	168
Thomas, John	. Dock, floating, dry		194
Thomas, John	. Dock, railway	9	194
Thomas, John	. Dock, floating, dry	9	194
Thomas, John	. Dowelling bit used in ship building	7	170
Thomas, John			171 197
Thomas, John E	Marine railway, sub-marine	5	141
Thomas, John E	Churn	lĭ	6
Thomas, J. E.—see Rathbone, J. F.		_	ļ
Thomas, John J		5	125
Thomas, Markwell			34
Thomas, Robert	. Auger, tube		265 156
Thomas, Robert S	Steam engine	14	276
Thomas, Robert S	. Grist mill	13	253
Thomas, R. S			23
Thomas, Spencer	. Pump, folding paddle	11	226
Thomas, Thomas G		21	. 350
Thomas, William	Dock, floating dry	9	194
Thomas, William	Shingles, manufacturing	14	279
Thomas, William:	. Staves, dressing	14	280
Thomas, William C	. Packing cotton	12	241
Thomas & Woodcock	. Pulp dresser	3	87
Thompson, Alexander	Paint for plastered walls	4	113
Thompson, Ambrose W	Printing, electrographic	5 18	135 326
Thompson, Archibald	Mortising hubs, machinery for.	14	270
Thempson, Cephas	. Copying machine	18	322

PATENTEES.	INVENTIONS OR DESCOVERS.	CLASS.	PAGE.
Thompson, Charles	Planing, moulding, and smooth, &c	14	928
Thompson, Charles	Window sash	9	3
Thompson, Charles	Tenons, sawing	14	増
Thompson, Eb	Water wheel, horizontal	11	3
Thompson, Elijah	Carding machine	3	
Thompson, Gab. H	Sector, sliding	8	J.
Thompson, George	Nails, manufacturing	3	
Thompson, Henry G	Carpets, design	3	34
Thompson, Isaac	Truss for hernia	26	10
Thompson, James	Steam engine, rotary	6	
signees of W. Hunt	Noils tooks As sutting As	2	54
Thompson, Jesse	Piano forte, action	18	395
Thompson, Jesse	Piana forte, upright	18	396
Thompson, Joel	Bedsteads, cutting screws, &c	17	306
Thompson, John	Plough	1	18
Thompson, John, 3d	Hair, picking, curled	3	76
Thompson, Jonah	Casks, steam, to making	14	96
Thompson, Jonathan	Flour mill	13	25]
Thompson, Luther	Churn	1	23
Thompson, Orpheus	Water wheel	11	3
Thompson, Rezin	Anodyne and alterative sirup	4	30
Thompson, Robert	Bandages, pads	20	394
Thompson, Robert	Ornamenting columns, &c	18	271
Thompson, R. H	Pegs, shoe	14	111
Thompson, Samuel.	Medicine	1	Ш
Thompson, Samuel	Medicine, botanic	4	111
Thompson, Thomas	Wind wheel, regulating	11	256
Thompson, William	Thrashing machine	1	98
Thompson, W. S.—see Hobb.		l	١.
Thomson, John S	Charn	1	199
Thomson, William	Lamps, lard	5	130
Thorn, Isaac, jr	Heating water for scalding hogs	5	195
Thorn, Linton	Excavating, embanking, and ditching	9	198
Thorn, William, and James Thorn, jr	Railroad, cleaning the tracks	9	279
Thorn, William, and James Thorn, jr Thorndike, John H.	Shingles, shaving	14	1
and metalo, would be a second second second	Pipes, supply for aqueducts, construc- tion of	11	994
Thorne, R. V. W	Pressing hay		96
Thorne, R. V. W. and J	Press, cotton	12	95
Thorne, R. V. W. and J.	Pressing machine	12	96
Thorne, Thomas	Churn	1	-
Thornton & Hall	Fire arms	19	35 99
Thornton, William	Water, cooling, and other fluids	11	15
Thornton, William	Boilers, steam, and boats	6	174
Thornton, William	Propelling paddles, &c	7	ir
Thornton, William	Spirits and wine, ameliorating, &c	1	105
Thornton, William	Distilling, boiler, &c	1	100
Thorp, Gould	Distilling, still for		14
Thorp, Gould	Cooking stove	5	H
Thorp, John	Spinning, hook spinner and twister, &c		2
Thorp. John	Braiding	3	9
Thorp, John	Braiding	3	8
Thorn John	Loom, hand and power	3	2
2201b) aoun			1 8
Thorp, John	Loom, weavers' harness for	3	, ,
Thorpe, Comfort B.	Loom, weavers' harness for	3	9
Thorpe, Comfort B	Loom, weavers' harness for	3	8
Thorpe & Angell	Loom, weavers' harness for	3 3 3	888
Thorpe & Angell	Loom, weavers' harness for	3 3 3 9	8 9 9
Thorpe & Angell	Loom, weavers' harness for	3 3 3 3	85 85 85 95 95 95

PATERONIA.	' ENVENTIONS OR DISCOVERISM.	CLASS.	PAGE.
Therpe, John	Spinning and twisting cotton	3	94
Thorpe, John	Loom shuttle, tying knots	3	89
Thorpe, John	Yarn, rolls forming, &c	3	96
Thorpe, John, and Wm. G. Angell	Loom, heddle stuff, &c	3	80
Thorpe and Shepperd	Winder, socket, bobbin	3	95
Thorpe, Thomas	Constructing boats	7	169
Thorpe, Thomas	Door springs	2	49
Thrailkill, Samuel	Plough, ditching	.1	26
	Springs, wooden	10	211
Throckmorton, Reid R	Planing machine	14	279
Throckmorton, R. R	Planing machine	14 6	279 169
	Planing machine	14	272
Thruston, Edward (Thurston in classifi-	- mining machinest transfer to the transfer to	••	~.~
_cation)	Thrashing grain and shelling corn	1	26
Thruston, John	Wheel hubs, cast iron	10	214
Thurber, Charles	Writing machines	18	329
Thurber, Charles	Printing, machines for	18	321
Thurber, Hezekiah	Pegs, cutting	14	271
Thurber, Hez	Washing machine	17	315
	Saw mill, dogs	14	275
Thurman, Silas T	Medicine, treatment of syphilis, &c	4	111
Thursby, John	Yarn, tarring	3	96
Thursby—see Marshall. Thurston, Edward	Washing mashing	17	215
	Washing machine	17	315
	Boats for passing up rapids	10	168 206
	Car bodies, mode of hanging Hats, military	3	78
	Oakum, making	3	84
PRO101 1 PRO1 33. TT. 1T.	Oakum, machinery for manufacture of	3	84
Tibbets, George, jr	Cistern, water	11	220
Tibbets, John G	Dressing iron, &c	2	42
Tibbets, John G., (not George G., as in	Wheels, boxes, &c., applying anti-		
classification.)	friction rollers to	10	219
Tibbets, John G	Harness, blinds of horse bridles	16	296
Tibbitts, Lafayette	Thrashing and cleaning wheat, &c	1	21
Tibbitts, Lafayette	Flax and hemp breaking, &c	3	79
Tibbitts, Lafayette	Flax and hemp machine	3	73
Tibbitts, Lafayette	Steam engine	6	157
Tichenor, John	Plough	1 9	· 901
	Window sash, &c	14	258
Tiemann, George	Scarificator	20	349
	Scarificator	20	349
Tiernan, Anthony	Dog power	13	251
Tiers, Arundius	Wheels for railroad cars, &c	10	215
Tiers, Arundius	Furnace, smelting ore	2	44
Tiers and Myers	Steering tiller wheel	7	177
Tiffany and Allen	Carding, drawing, &c	3	67
Tiffany, Arunah	Fish, catching	22	357
Tiffany and Robinson	Churn.	j	1 .0
Tilden, Lester Tilden, Richard S	Stoves, cooking, with elevated ovens.	5	148
	Roofs covered with tin	9 21	199 352
Tileston—see Hews and Marsh.	Carmena, measuring, acc	~1	304
Tileston, Wales	Boots and shoes, &c., with wooden or		l
1	metal nega	16	295
Tilford, John M	Straw cutter	1	96
Tilford, John MTilford, T. M. (J. M., in class.)	Horse wheel, vertical	13	957
Tilford, T. M. (J. M., in class.)	Plough	1	18
THE C. JURAN CL. S. S. S. S. S. S. S. S. S. S. S. S. S.	Hate water proof &c	l 32	78
THE HILLIAM COUNCILL CONTRACTOR C	Kaliway hard fastening		199
Tilghman, Richard ATilley, Hattel.	Lintome vellow, making		102
M	CHIL VALE, MODE OF COVERING	1 4	116

			_
Paten tres .	INVENTIONS OR DISCOVERISS.	CLASS.	PAGE.
Tillinghast, J. B	Silk worms, cocoonery for Stoves, apparatus for regulating the	3	86
Tillotson, Alfred	heat of	5 21	138 353
Tillon, John	Cloth, taking wrinkles out of, &c	3 9	66 194
Tilson, Edward C	Threads or cords, worsted, or other dressing or finishing	-	95
Tilton, William P	Pumps	11 7	225 176
Timby, Theodore R	Sleighs, connecting the body with the runner	10 15	210 290
Timby, Theodore R	Water wheel, turbine	11 11	235 231
Timby, Theodore R Timby, Theodore R Tims, John H	Water wheel	11 10 9	931 989 197
Tindle, Robert, admin'or of Israel Riggin Tinkler, Joseph Tinkler, Joseph	Marine railway Pressing, art of Plough	12 1	945 17
Tippett, Edward D	Meat cutters	17 17	313 317 161
Tippet, Edward D	Steam engine, safety	5 1	140 25
Tisdale, Ephraim	Smut machine, wheat Winnowing screen, &c	1	35 94
Tittomb, Edgar M	Spinning woollen roving Car, safety	3 10 2	907 55
Titus, Burroughs. Titus, B. and A. Tobey, Augustus.	Pipes or tubes, &c	5 4	139 104 133
Toby, Cornelius	Lamp, lardBark mill	5 18 2	949 55
Todd, Alpheus	Pipes, leaden	5 17	360 312 335
Todd, Day, and Bache	Physiognotrate	18 1 1	22
Todd, Henry Todd, Hiram Todd & Pesbody	Seed planters Teeth cylinder turnkey, for extractions Oil, linseed, substitute for	~	313 119 185
Togno, John W Tolles, Elisha	Lotteries, schemes	6	159
Tolles, Elisha	sand, &cPump, suction and lifting	11 2	991 99 913
Tolles, Elisha	Shoes, horse	10 10 13	987 949
Tolson, Alexander	Lever, rotary engine	12	941 161 940
Tomkins, Caleb	Steam engine, rotary, and boiler Lever, combination of Smut machine	12 · 1 1	93 15
Tomlinson, Daniel	Hulling rice, machinery for	11 16	933 996 133
Tomlinson, Daniel	Lamps, lard furnaces and fireplace, &c	5 5	133 198 977
Tomlinson, Peter	Sawing logs in plank	14	,53 900
Tomlinson, Stephen	senarator for	10	-

PATENTYSER.	MYENTIONS OR DISCOVERS.	CLASS.	PAGE.
Tomlinson, Wm. A	Beef, salted, mode of, &c	4	99
Tompkins & Gilroy	Loom, damask	3	80
Tompkins, James	Wheel hubs, boring, &c	10	214
Toms, Daniel	Staves, sawing, jointing, and smooth-		
,	ing	14	281
Toms, Daniel	Staves, sawing	14	281
Tongue, Richard R	Ovens	5	134
Tonsley, Roswell	Plough	1	16
Tonsley & Swann	Plough, bull	1	19
Tonsley, Sylvanus	Plough, bull	1	19
Tonsley, Sylvanus	Sleigh shoes, cast iron, &c	10	210
Toppan, E. C	Blocks, sheaves of, &c	7	167
Torbet, Francis R	Steam engine, regulating the pressure	_	
	of steam	6	160
Torrey, Harlow, J	Marble, grooving and beading	15	289
Torrey, Harlow, J	Marble, smoothing and polishing	15	289
Torrey, Jesse	Bookbinding	18	321
Torry, Jos	Water wheel	11	230
Torrey, Wm	Bark mill, cast iron	13	250
Totten, Lafford	Spinning wool, domestic	3	94
Totten, Lafford	Spinning machine, &c	3	91
Tough, John S	Lamps, argand	5	132
Tough, John S	Lamps, regulating the flame of	5	132
Tough, John S	Measuring liquids, measures for	11	224
Tough, John S	Springs, carriage, manner of applying	10	210
Toupet, Charles	Feathers, dressing and cleaning	17	312
Touson, Joseph	Stock	21	353
Tower, Jonas	Iron or other ores, process of redu-		₹ .
	cing, &c	2	47
Town, Abner	Stock, gun, lathe for	19	337
Town, Elisha	Cooking stove	5	139
Town, Elisha	Stoves, rotary	5	146
Town, Elisha	Wheels of locomotives, &c	10	215
Town, Ithiel	Bridges	9	191
Town, Ithiel	Bridges	9	192
Town, Ithiel—see Peters.		1 _	١
Town, J. T	Smut machine	1	24
Town, J. T.	Water wheel	11	230
Town & Oliphant	Pumping ships, wheel power	11	227
Towne & Couch	Nails, cutting, rolling, and plating		52
Towne, J. H	Steam engine, vibrating	6	162
Towne—see Merrick.		١.	00
Townsend, Ashley	Thrashing machine, grain	1	32
Townsend & Durfee	Cordage, rope		178
Townsend, Edward S	Towing boats on canals	7	1,0
Townsend, Edward S.—see Durfee, Chs.		l	1
Townsend, J., ass'ee of W. Hunt, (not, as	Too boarbar	-	170
in Classification, Hunt & Townserd).	Considerable and double trimmen	16	290
Townsend, Luther	Curriers' knife, and double trimmer.	16.	250
Townsend, Tappan	Warming the interior of passenger		14
Timmand Wm W	cars, mode of	1	249
Townsend, Wm. W	Press, cheese		24
Townshend, Erastus	Churn.	î	1 ~
Townshend William	Loom, hand, for weaving fabrics		8
Townshend, William T., (William W.	Troum, mand, for wearing montes	1	1 5
	Churn	1	1 4
in classification)	Oils, animal, purifying		11
Tracy, Andrew		<u>ة</u>	5
Tracy, Cyrus	Metal, sheet, cutting		35
Tracy, Erastus	Wool, cleaning burs from		9
Tracy Oren	Axles, for carriages		20
Tracy, Oren	1.2.00, 101 00212000000000000000000000000000	1	

INDEE.

`PATAMOMAN.	-myantions or descoy ships -	CLASS.	PAGE.
Frail, Archibald	Ships and other vessels, strengthening		
77	the sails of	7	177
Trapetta, Philip	Plettro lira	18	39
Trask, Edward	Sleigh shoes, cast iron	14 10	21
Trask, Asa P., and Davis Aldrich	Mowing machine	ĩ	1
Trask, E. and J	Bark mill	13	94
Trask, John	Boots and shoes, manufacturing	16	294
Trask, J., A. Seabury, and Wm. Young		13	251
Travis, John J	Preparing leather belt, &c	16	296
Trask, Samuel	Propelling boats &c	7	170
Traver, Philip C	Propelling boats, &c	5	14
Treadwell, Daniel	Spinning, hemp and flax, &c	3	9
Treadwell, Daniel	Spinning, roping flax, &c	3	91
Treadwell, Daniel	Cannon	19	331
Treadwell, Daniel	Printing press, power	18	321
Treadwell, Daniel	Cannon, wrought iron	19	331
Treadwell, Daniel	Steam engine, condens'g apparatus of	6	159
Treadwell, Daniel	Cordage, rope	3	71 71
Treadwell, Daniel	Cordage, rope yarn, tarring	3	77
	Bread, biscuit, &c	17	309
Treadwell, Ephraim	Bread finisher	17	309
Treadwell, Ephraim	Crackers and biscuit, cutting	17	310
	Brick, air conducting, &c	15	285
	Ovens, American	5	134
	Stoves	5	136
	Ovens, heating by anthracite	5	134
	Hinges, butt, table	5	139
	Stoves, dumb, for parlors	5	144
Treadwell, Stephen	Screws, cutting wooden	14	278
	Shearing cloth	3	87
	Stove, cooking	5	143
Trembly, Benjamin	Cement, marble, &c	4	101
Trench, Thomas	Paper, making, filtering for	3	86
Trench, Thomas	Printing both sides of a continuous		908
Tripe, Richard	Sheet	18	396 170
	Press, cotton and hay	10	943
	Alum from ignite	4	99
	Dying, nankeen	4	107
	Propelling wheels for boats, &c	4	136
	Ores, washing apparatus for, &c	2	54
	Lead, white, preparing, &c	4	110
	Pump, rotary	11	227
	Washing machine, steam	17	318 116
	Steam, generating	6	168
	Cambooses, portable kitchen, &c	5	194
	Cooking stove, kitchen, &c	5	144
Truman, James	Distilling, worm, boiler	4	107
Truman, Joseph	Paper, making	3	.86
Truman, J. M. and George	Lampe, gas	5	選.
	Tin plate, coating with lead	2	223
	Gate paddle	11	100
	Bridges, construction of	9	
Trumbull, Shadrach	Beehives	ī	199 63 259
	Mill stones, dressing	13	250
Trump. G. A.—see Frederick R.	, -		
Trump, Joseph	Plough, hill side	10	31



PATEK IRI E.	THABILLORS OF DISCOASSIES.	CLASS.	PAGE.
Tryon, Imac	Combs, pointing and cutting	21	35
Tuck, Davis G	Tobacco, curing	ī	3
Tuck, Davis G	Tobacco, curing by flues, &c	1	3-
Tuck, Jos. H	Candles, moulding	4	10.
Tucker and Dwelle	Hydrometer	11	22
Tucker, Edwin	Lathes, turning irregular forms	14	26
Tucker, James	Excavator, mud machine	9	19
Tucker, John	Roads, streets, &c., cleaning	9	19
Tucker and Judge	Anchor, faggoting	7	16
Tucker, Septimus	Washing machine	17	31
Tudor, Fred	Constructing ships	7	16 11
Tudor, H. J	Salt, manufacturing	14	27
Tuells, Melzar	Planing machine	10	21
Tuells, Melzar	Wheelbarrows	10	21
Tufts, Nathan, 2d	Printing press	18	32
Tufts, Otis	Printing press	18	32
Tufts, Otis	Printing press, hand, straightening, &c.	18	32
Tulley, Joseph	Cooking stove, family	5	14
Tunstall, Wm	Winnowing machine	ĭ	3
Turbutt, Nicholas	Plough, common	ī	1
Turbutt, Nicholas	Spark arresters	6	.15
Turk, Evans	Brush, broom, and other handles	17	31
Turk, John	Mill wheel, dresser	13	25
Turk, John	Smut machine	1	2
Turnbull, James	Boots, making	16	29
Turner & Barnes	Thrashing machine	1	30
Turner, Daniel B	Kettles, potash, setting	5	13
Turner, Elisha	Raising canal boats	9	19
Turner, Elisha	Raising canal boats	9	19
Turner, Elisha	Dock, screw	9	19
Turner, Elisha	Power, by weights, &c	13	26
Turner, Isaac W	Axes, machine for making	2	3
Turner, Jedediah P	Thrashing machine	,1	2
Turner, John	Water wheel, reacting	11	23 17
Turner, John	Propelling, circular levers for	7 16	29
Turner, John L	Leather, fair, manufacturing	21	34
Turner, Jonathan S	Raising water	îi	22
Turner, Joseph Turner, Joseph	Churn	'n	
Turner, Joseph	Corn sheller	î	
Turner, Robert	Nails, manufacturing, compound lever,		
241101, 240001	&c., for	2	5
Turner, Robert	Nails and brads, and sprigs	2	5
Turner, Robert	Breaks, wagon, self-regulating	10	20
Turner, Samuel	Thrashing machine	1	3
Turner, Stukely	Cotton wadding, &c	3	7
Turner, William A	Explosion of boilers, preventing, &c	6	15
Turner, William A	Explosion of boilers, preventing, &c	6	15
Turner, William A	Steam engine, machinery	6	15
Turner, William A	Odometer	8	18
Turner, William A	Grist mill	13	25
Turney, Andrew	Drilling stone	. 9	19
Tusing, Philip	Raising water	11	22
Tustin, John		. 5	19
Tushill, A. G. D.	Unimpeys	5	12
Tuthill, A. G. D.	Propelling boats	7	17
Tuthill, Daniel L		3	9
Tuttle, Diana H	Spinning wheel heads, &c	3	J 3
Tuttle, E.—see Haviland, F.	Steem engine note-	6	16
Tuttle, Jesse	Steam engine, rotary		5
Tuttle, Robert M	Lock, door, combination tumbler	i ~	
Tuttle, William H., assignee of John			

PATENTERS.	INVENTIONS OR DISCOVERIES	CLASS.	PAGE.
Futtle, William and J. N., assignees of			
Charles F. Voorhies	Locks, door, and other	2	45
Twiss, Hiram	Clocks and time pieces	8	184
Twiss, Hiram	Pendulum, balance	8	180
Twiss, Hiram	Coffee mill	13	256
Twitchell, Gershom	Truss, elastic	20	344
Twitchell, Mark	Brick press	15	267
Twitchell, Mark	Brick press	15	286
Twombly, Ephraim	Boots and shoes, manufacturing, &c	16	294
Tyler, as in classification)	India rubber, cutting	222	358
Fyler, Benjamin	Flax and hemp machine	3	73
Tyler, Benjamin	Grist mill	13	255
Tyler, Benjamin	Wry fly, for mill machinery	13	263
Tyler, Benjamin	Winnowing wheat	1	30
Tyler, Benjamin, and John	Scythes, manufacturing	2	54
Tyler, Benjamin, and John	Bellows, wooden	11	219
Tyler, B. and J., and J. B. Andrews	Thrashing machine	1	2
Tyler & Coston.	Hats, pressing, Leghorn, &c	3	70
Fyler, Crawford	Clapboards, &c., sawing	14	26
Pyler, H	Bolls	2	4
Tyler, John	Winnowing grain	1	34
Tyler, Joseph	Thrashing machine	1	3
Tyler, Philos B.	Railroad switch	9	199
Tyler, Philos B., executor of Rufus Tyler,			101
deceased	Coin, apparatus for counting	.8	184
Tyler, Rufus	Press, cotton	12	243
Tyler, Samuel	Dividing machine	8 1	19
Tyson, A. H	Kiln, lime	15	288
Tyson, Isaac	Copperas, making	14	103
Tyson, Isaac, jr	Furnace, blast	2	43
Tyson, Isaac, jr	Potash, chromate of	4	114
Tyson, Nathan	Kiln, drying flour	5	131
Tyrer, James	Gun, percussion	19	335
Tyrrill, Asahel	Press, cheese	12	242
Ulam, David	Steam engine, rotary	6	160
Ulam & Isaacs	Propelling boats by pumps	7	173
Underwood, Noah.	Pumps, applying power, &c	11	225
Underwood, Silas	Saw mill, circular wedge for	14	275
Underwood, Silas.	Wedge, circular	13	261
Underwood, Stephen. Underwood, S.—see Shrvock.	Bonts, passing over dams	7	169
Underwood, William.	Sawing timber, &c	14	277
Updike, Daniel	Pumps	11	294
Upham, George	Beehives, entrance to	1	
Upham, Lucius	Crimping leather	16	295
Upham, Pliny	Pumps	11	294
Upham, Pliny	Pump, forcing	11	226
Urann, Richard	Mitreing and dovetailing boards, &c	14	270
Urffer, Michael	Winnowing grain	1	34
Urmy, Jesse	Gearing, for driving machinery	13	259
Orney, Jesse	Grinding corn and cob, mill for	13	359
Urquhart, Norman. Usher, Sophia	Saw set, for mills	2	57
Usher, Sophia		4	104
Hetiale Stanton	Straw cutter	1	26
Ostick, Stephen			26
Ustick, Stephen	Straw cutter	1	
Ustick, Stephen Ustick, Stephen Ustick, Stephen	Straw cutter	1	26
Ustick, Stephen	Straw cutter		

PATENTERS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Udey, Grey	Straw cutter	1	9
Utley, Jos	Tooth ache, remedy	4	11
Utter, Samuel	Stoves	5	13
Utter, Samuel	Cooking stove	5	14
Vail, Henry	Fence posts	14	26
Vail, Stephen	Steam engine, locomotive	6	15
Vail, Stephen	Jackscrew	12	24
Valcourt, LewisVale, CharlesVale, Charles	Mill machinery	13 5	25 13
Vale, Charles	Cooking stove	5	13
Vale, Charles	Ovens, portable	5	i
Vale, Gilbert	Globes	8	18
Valentine, Abraham S	Rolling iron	2	5
Valentine, Abraham S	Boilers, steam	6	15
Valentine, George F	Chrystallizing tin	4	10
Valentine, Roswell	Heating liquids	5 11	13
Valentine, Samuel L	Water wheel	ii	23
Valentine, Samuel L	Water wheels	îî	23
Vallerchamp, Azima	Carriage bodies, hanging	10	20
Van Allen, C. D	Ovens, reflecting	5	13
Van Allen, C. D	Pump, valve of	11	22
Van Alstine, Cornelius	Saw mills	14	27
Vanamburg, Isaac	Fences	9	19
Van Ankin, James, 2d Van Antwerp, Peter	Churn dashers	i	!
Vance, Elisha	Raising water and forcing	11	92
Vancleve, Aaron W	Boring rocks	9	19
Van de Graaff, J. S	Hemp break	3	7
Vanderpool & Eagles	Tobacco, spinning, &c	22	35
Vanderslice, Thomas	Teeth, artificial, metallic plates, &c	20	34
Vanderveer, Benjamin M	Arithmetic, mode of teaching	22	35
Van Doren, Isaac	Thrashing machine	13	25
Van Dorn, Jacob	Canals, locks, gate, safety	7	19
Van Dusen, Washington	Propelling paddles, used as ice breakers	7	17
Van Dusen, Washington	Marine railway	9	19
Vanduzer, William	l ====	3	1 .7
Van Gasbeck and Sands	Water wheel and fide	111	23
Van Gorder, Isaac	Wheels for carriages	11	2
Van Gorder, Isaac	Wheels for carriages	ľ	~
Van Hoesen, Levi	Loom, weaving fish nets	3	
Van Hoesen, Levi	Hats, bodies	3	1 3
Van Hoesen, Levi	Felting of wool, without spinning, &c.	3	1 3
Van Hoesen, William C			24
Van Hoesen, W. C.;	Press, cotton	12 21	3
Vanhorn, Abraham L Vanhorn, A. L	l Suspenders, manufacturing	16	2
Van Houten, R. C.	Thrashing machine	i	5
Van Kleek, L. J.	Oil. substitute for	4	1
Van Loan, William W	Pole, life, and fire engine assistant		34
Van Loan, William W	Propelling, paddle wheels, &c		17
Van Loan, W. W Van Loan, W. W	Boilers, steam, supplying with water.		1:
Van Loan, vv. vv	Navigation, steam, &c., application	8	18
Vanneni, Joseph.			18
Vannini, Joseph	Lottery schemes		i
Van Noy, Cornelius	Bedsteads	17	30
Van Order, Abraham	Boilers, steam	6	15
Van Osdel, John M			34

Van Riper, Thomas	PATRITURE.	mventions or discovinities.	CLASS.	PAGE.
Vanneckton, D. K. Binding, ornamental, &c. 18 Van Riper, Thomas Spinning throutle, bobbin, &c. 3 Vansant, Abner Salts, from salts and potash 4 Vansant, Abner Water wheel, spiring 1 11 Van Sicler, John F. Stoves, Franklin 5 Van Tiers, S. Anvil block 2 Van Taryl, David B. Temperature, instrument for regulating Van Taryl, John Y. Wind wheel, horizontal 11 Van Vorles, Abreham Pump, stone, &c. 11 Van Vorles, Daniel Wind wheel, horizontal 11 Van Vorles, Daniel Wind wheel, or water 11 Van Vorles, Daniel Wind wheel, or water 11 Van Vorles, Daniel Wind wheel, or water 11 Van Vorles, Daniel Wind wheel, or water 11 Van Vorles, Daniel Wind wheel, or water 11 Van Vorles, Daniel Wind wheel, or water 11 Van Vorles, Daniel Wind wheel, or water 11 Van Winkie, Jesse. Booss, crimping leather for 16 Van Zandt, Nicholas Washing machine 17 Varden, Robert B Warming rooms, &c. 10 Varden, Robert B Warming rooms, &c. 10 Variel, Davis Churn 11 Variel, Charles Lime, reducing calcareous matter, &c. 11 Variel, Charles Lime, reducing calcareous matter, &c. 15 Variel, Charles Lime, reducing calcareous matter, &c. 15 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 18 Variel, Charles Lime, reducing calcareous matter, &c. 19 Variel, Charles Lime, reducing calcareous matter, &c. 19 Variel, Charles Lime, reducing calcareous matter, &c. 19 Variel, Charles Lime, reducing calcareous matter, &c. 19 Variel, Charles Lime, reducing calcareous matter, &c. 19 Variel, Charles Lime, reducing c	Van Pelt, Abraham	Tanning hides	16	300
Van Riper, Thomas Spinning threatle, bobbin, &c. 3 Vansant, Abner. Salta, from salts and potash. 4 Vansant, Abner. Water wheel, spiral. 15 Van Sieler, John F. Stoves, Franklin. 2 Van Taryl, David B. Temperature, instrument for regulating 5 Van Taryl, John Y. Wind wheel, or water. 11 Van Vortes, Abraham Pump, stone, &c. 11 Van Vortes, Abraham Pump, stone, &c. 11 Van Vortes, Abraham Pump, stone, &c. 11 Van Vortes, Abraham Pump, stone, &c. 11 Van Vortes, Abraham Pump, stone, &c. 11 Van Vortes, Abraham Pump, stone, &c. 11 Van Vandrks, Daniel. Wind wheel, or water 11 Van Vandrks, Daniel. Warden, Robert 16 Varle, Charles Warden, Robert 10 Varle, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Lime, reducing calcareou	Van Pelt, H. and Benjamin Armstrong			62
Vansant, Abner. Vansant, Abner. Van Steler, John F. Van Steler, John F. Stoves, Franktin. Stoves, Chimney, Italy Stoves, Italy Stoves, Franktin. Stoves, Chimney, Franktin, Fra				382
Vansart, Abner				114
Van Sieler, John F. Stoves, Franklin 5 Van Tayl, David B. Temperature, instrument for regulating 5 Van Tayl, John Y. Wind wheel, horizontal. 11 Van Vorhes, Abraham Pump, stone, &cc. 11 Van Winkle, Jesse Boots, crimping leather for. 16 Var Workle, Jesse Boots, crimping leather for. 16 Var Candt, Nicholas Washing machine 17 Varden, Robert B. Hinges for fastening blinds & shutters Varden, Robert B. Warming rooms, &c. 5 Vareld, Charles Lime, reducing calcareous matter, &c. 15 Varie, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Lime, reducing calcareous matter, &c.				234
Van Tayl, David B Van Tayl, David B Van Tayl, John Y. Van Vorles, Abraham Van Vorles, Abraham Van Vorles, Daniel. Van Vorles, Daniel. Van Winkle, Jesse Van Zandt, Nicholas Varden, Robert B Varden, Rob	Van Sicler, John F			146
Van Tuyl, John Y Van Tuyl, John Y Van Vorles, Abraham Van Vorles, Abraham Pump, stone, &c. 11 Van Vorles, Daniel Wan Winkle, Jesse Warden, Robert B Varden, Robert B Varden, Robert B Varles, Felix Varles, Felix Varles, Charles Using the state of the sta	Van Tiers, S	Anvil block		3
Van Vorltes, Abraham Pump, stone, &c. 11 Van Vorltes, Daniel Wind wheel, or water. 11 Van Winkle, Jesse Boots, crimping leather for 16 Van Zandt, Nicholas Washing machine 17 Varden, Robert B Washing machine 2 Varden, Robert B Warlinge for fasteoing blinds & shutters 2 Varle, Charles Lime, reducing calcareous matter, &c. 10 Varle, Charles Lime, reducing calcareous matter, &c. 15 Varle, Charles Instructor; self. 18 Varle, Charles Stopenser and plus 3 Varser, Matthew Stopens, for self. 3 Vaughn, Jirah	Van Tuyl, David B			147
Van Vorlries, Daniel. Van Winkle, Jesse. Wan Zandt, Nicholas. Varden, Robert B. Varden, Robert B. Varden, Robert B. Varden, Robert B. Variel, Palix. Variel, Palix. Variel, Charles. Varying instruments. 8 1 10 11 12 12 13 14 15 15 16 16 17 18 18 18 18 18 18 18 19 19 10 10 11 11 11 11 12 12 12 13 14 14 15 16 16 17 17 18 18 18 18 18 18 18 19 19 10 10 11 11 11 12 12 12 13 14 14 15 16 16 17 17 18 18 18 18 18 18 18 18				250
Van Winkle Jesse. Boots, crimping leather for 16 9 Van Zandt, Nicholas Washing machine 17 3 Varden, Robert B. Hinges for fastening blinds & shutters Varden, Robert B. Washing machine 2 2 Varden, Robert B. Warlen, Felix. Wheels, easy motion, &c. 10 2 Variel, Davis. Churn. 1 Lime, reducing calcareous matter, &c. 15 Varie, Charles Link, reducing calcareous matter, &c. 16 Varie, Charles Instructor; self. 18 3 Varie, Charles Sinstructor; self. 18 3 Varie, Charles Sinstructor; self. 18 3 Varie, Charles Sinstructor; self. 18 3 Varie, George D. Surveying instruments. 8 8 Varney, George D. Surveying instruments. 8 8 1 Vassar, Charles. Brick, moulding and driving 15 9 Vassar, Charles. Brick, moulding and driving 15 9 Vassar, Charles. Brick, moulding and driving 15 9 Vassar, Charles. Brick, moulding and driving 15 9 Vassar, Charles. Brick, moulding and driving 15 9 Vassar, Charles. Brick, moulding and driving 17 9 Vaughn, Jicob K., and Evan Henry Everman Soap 4 17 Vaughn, Jicab K., and Evan Henry Everman Bedistends. 17 9 Vaughn, Jirah Bedistends. 17 9 Vaughn, Jirah Bedistends. 17 9 Vaughn, Jirah Bedistends. 17 9 Plates for pressing woollen cloths. 3 Veltenair, Christiaa Press, lever, bottom corabined. 12 9 Vernear, Emanuel Press, lever, bottom corabined. 12 9 Vernear, Emanuel Press, lever, bottom corabined. 12 9 Vernelinion, Dennis. Excavating, excavator or drag, &c. 9 1 Vernon, John Bennis. Excavating, excavator or drag, &c. 9 1 Vernon, John Boots, cutting the legs of. 16 9 Vernon, John Boots, cutting the legs of. 16 9 Vernon, William Cuclery, cleaning and polishing 9 Vinton, Stah Prose Wester, Mode of preserving not found in Classification; but patented 16th August, 1844 Shoes, over 16 18 Wester, Modes, Sewest, mode of preserving not found in Classification; but patented 16th August, 1844 Shoes, over 16 9 Plates of the propelling propeller, submerged 17 Von Schmidt, Peter Preserving timber by impregnation 4 19 Von Schmidt, Peter Preserving timber by impregnation 4 19 Von Schmidt, Peter Preserving timber by impregnation				- F
Van Zandt, Nicholas Varden, Robert B. Varden, Charles Varden, Charles Varden, Charles Varden, Charles Varden, Robert B. Varden, Robert B. Varden, Charles Varden, Charles Varden, Robert B. Vard				32
Varden, Robert B. Hinges for fastening blinds & shutters Varden, Felix Wheels, easy motion, &c. 5 Variel, Felix Wheels, easy motion, &c. 10 Variel, Charles Lime, reducing calcarcease matter, &c. 15 Varle, Charles Lime, reducing calcarcease matter, &c. 15 Varle, Charles Stoves, chimney 5 Varnel, Reuben C. Cloth, brushing and winding. 3 Varnel, Reuben C. Cloth, brushing and winding. 3 Varney, George D. Surveying instruments. 8 Vasser, Matthew Stoppers and plugs. 15 Vasser, Matthew Stoppers and plugs. 11 Vaughn, Jacob K., and Evan Henry Stoppers and plugs. 11 Vaughn, Jirah Belasce. 12 Vaughn, Jirah Belasce. 12 Vaughn, J. C. and Frederick Leach Pipes, casting and drawing lead 2 Vedder, Volkert Plates for pressing woollen cloths 3 Veltenair, Christian Razor, grindiag 2 Vernon, John Boots, cutting the legs of 16 Verron, John Boots, cutting the legs of				315
Varrelen, Robert B		Hinges for fastening blinds & shutters	2	4
Variel, Davis. Churn. 1 Varie, Charles. Lime, reducing calcareous matter, &c. 15 Varie, Charles. Instructor, self. 18 3 Varie, Charles. Stoves, chimney. 5 Varnham, Arthur. Paper, for notes, manufacturing. 3 Varnel, Reuben C. Cloth, brushing and winding. 3 Varney, George D. Surveying instruments. 8 Vassar, Charles. Brick, moulding and driving. 15 Vasser, Matthew. Stoppers and plugs. 11 Vaughn, Jacob K., and Evan Henry Everman. Scap. 4 Vaughn, Jirah. Belance. 17 Vaughn, Jirah. Blalance. 17 Vaughn, Jirah. Blalance. 17 Veder, Velkert. Plates for pressing woollen cloths. 2 Verlenair, Christian. Razor, grinding. 2 Verent, Peter F. L. Garments, measuring instruments. 2 Vernon, John Bernard E. Sugar, refining. 4 Vermilion, Dennis. Excavating, excavator or drag, &c. 12 Verst, Charles. Mill stones, dressing, &c. 13 Vestal, Aaron H. Potatoes, sweet, mode of preserving-not found in Classification; but patemed 18 Vince, William. Cuttery, cleaning and polishing. 2 Vince, William. Cuttery, cleaning and polishing. 2 Vince, William. Cuttery, cleaning and polishing. 2 Vince, William. Cuttery, cleaning and polishing. 2 Vince, William. Cuttery, cleaning and polishing. 2 Vince, William. Cuttery, cleaning and polishing. 2 Vince, William. Cuttery, cleaning and polishing. 2 Vogel—see Kettering. Vogel, Kasimer. Verse: Gin, cotton, improvement in. 3 Von Schmidt, Peter. Propelling boats by animal power. 7 Von Schmidt, Peter. Propelling posts by animal power. 7 Von Schmidt, Peter. Propelling, propeller, subnerged. 7 Von Schmidt, Peter. Propelling, propeller, subnerged. 7 Von Schmidt, Peter. Propelling, propeller, subnerged. 7 Von Schmidt, Peter. Propelling machine. 16 Vose, Samuel D. Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 Stove, box, (design). 5 S				14
Varlé, Charles. Lime, reducing calcareous matter, &c. 15 2 Varlé, Charles. Instructor; self. 18 3 Varlé, Charles. Stoves, chimney 5 1 Varnham, Arthur. Paper, for notes, manufacturing. 3 Varney, George D. Surveying instruments. 8 Varney, George D. Surveying instruments. 8 Vasser, Matthew Stoppers and plugs. 15 Vassar, Charles. Stoppers and plugs. 11 2 Vaughan, Jacob K., and Evan Henry Everman Section Stoppers and plugs. 12 Vaughan, Jirah Soap 4 Vaughan, Jirah Soap 4 Vaughan, Jirah Soap 4 Vaughan, Jirah Soap 4 Vaughan, Jirah Soap 4 Vaughan, Jirah Soap 4 Vender, Volkert Pipes, casting and drawing lead 2 Vender, Christian Razor, grinding 2 Verest, Peter F. L. Garments, measuring instruments 2 Vergion, Bernard E. Sugar, refining 2 Vermillion, Dennis Excavating, excavator or drag, &c. 9 Vermon, John Soots, cutting the legs of 16 Verstal, Aaron H. Potatoea, sweet, mode of preserving not found in Classification; but patenced 16th August, 1844. 16 Viales, Lewis Cotton, inspecting machine 3 Vinc, William Cutlery, cleaning and polishing 2 Vinton, Seth Propelling, propeller, submarged 7 Von Schmidt, Peter Grin, cotton, improvement in 7 Von Schmidt, Peter Propelling boats by animal power 7 Von Schmidt, Peter Propelling boats by animal power 7 Von Schmidt, Peter Propelling boats by animal power 7 Von Schmidt, Peter Propelling boats by animal power 7 Von Schmidt, Peter Propelling propeller, submarged 7 Von Schmidt, Peter Propelling propeller, submarged 7 Von Schmidt, Peter Propelling propeller, submarged 7 Von Schmidt, Peter Propelling propeller, submarged 7 Von Schmidt, Peter Propelling propeller, submarged 7 Von Schmidt, Peter Propelling propeller, submarged 7 Von Schmidt, Peter Propelling propeller, submarged 7 Von Schmidt Peter Propelling propeller, submarged 5 Vose, Samuel D Stove, b	Varela, Felix			213
Varlé, Charles. Instructor; self. 18 3 3 4 5 5 5 5 5 5 5 5 5				-
Varie, Charles. Varnham, Arthur. Varnham, Arthur. Varnel, Reuben C. Cloth, brushing and winding. 3 Varney, George D. Vasser, Matthew Vaughan, Jacob K., and Evan Henry Everman. Vaughn, Gideon, jr. Vaughn, Jirah Vaughn, J. C. and Frederick Leach Veltenair, Christian Veltenair, Christian Veret, Peter F. L. Vermillion, Dennis. Verplank, Isaac B. Verst, Charles. Vest, Charles. Vest, Charles. Vester, Andrew Vester, Andrew Vester, Andrew Vine, William Vine, William Vine, William Vogel, Kasimer Vogel, Kasimer Von Schmidt, Peter Von Schmidt, Peter Voorbies, Charles T.—see Tuttle. Vose, Samuel D. Stove, Stoves, chimney Paper, for notes, manufacturing. 3 Cloth, brushing and winding. 3 Surveying instruments. 8 Paper, for notes, manufacturing. 3 Cloth, brushing and winding. 3 Surveying instruments. 8 Pick, moulding and driving 15 Suppers and plugs. 11 22 Pick, moulding and driving 11 23 Surveying instruments. 8 Pick, moulding and driving 11 24 Soap. 4 12 Soap. 4 13 Saprovers and plugs. 11 25 Saprovers and plugs. 12 26 Pipes, casting and drawing lead. 22 Plates for pressing woollen cloths. 3 Razor, grinding. 22 Plates for pressing woollen cloths. 3 Razor, grinding. 23 Verest, Peter F. L. Garments, messuring instruments. 21 22 Vermillion, Dennis. Excavating, excavator or drag, &c. 9 12 3 3 4 4 13 3 4 4 4 14 15 16 16 16 17 18 18 18 19 19 10 10 10 11 11 12 12 12 12 12				399
Varnham, Arthur. Varnel, Reuben C. Varney, George D. Vassar, Charles. Vasser, Matthew Vaughan, Jacob K., and Evan Henry Everman Vaughn, Jirah Vaughn, Jirah Vaughn, Jirah Vedter, Volkert. Verte, Peter F L. Vernon, Bernard E. Vernon, John Vernon, John Vernon, John Vernon, John Vernon, John Verstal, Aaron H. Vestal, Aaron H. Vetter, Andrew Viniton, Sesh Vine, William Vinton, Sesh Vogel, Kasimer. Von Schmidt, Peter Von Schmidt, Peter Von Schmidt, Peter Von Schmidt, Peter Voorhies, Charles T.—soc Tuttle Vose, Samuel D Stove, bornor Geology, Stove, boxlor, design) Survey, parlor (Jessing) Cloth, brushing and winding. 3 Cloth, brushing and winding. 3 Surveying instruments. 8 8 8 8 Surveying instruments. 11 22 Soap. 4 12 Soap. 4 13 Soap. 4 14 Soap. 4 17 Soap. 4 18 Razor, grinding. 29 Plates for pressing woollen cloths. 3 Razor, grinding. 29 Pross, lever, bottom combined. 12 9 9 12 9 13 14 15 9 16 9 17 9 18 18 19 19 19 19 19 10 19 19 10 10				136
Varnel, Reuben C				136
Varney, George D. Surveying instruments. 8 Vassar, Charles. Brick, moulding and driving	Varnel, Reuben C			
Vasser, Charles. Brick, moulding and driving. 15 Vasser, Matthew Stoppers and plugs. 11 Suphan, Jacob K., and Evan Henry Everman Sep. 4 Vaughn, Gideon, jr. Bedsteads. 17 Vaughn, Jirah Balance. 12 Vaughn, J. C. and Frederick Leach Pipes, casting and drawing lead. 2 Vedder, Volkert. Plates for pressing woollen cloths. 3 Veltenair, Christian Razor, grindiag. 2 Verenar, Emanuel Press, lever, bottom combined. 12 Verpon, Bernard E. Sugar, refining. 4 Vermillion, Dennis. Excavating, excavator or drag, &c. 9 Vernon, John Boots, cutting the legs of. 16 Verstal, Aaron H. Potatoes, sweet, mode of preserving—not found in Classification; but patented 16th August, 1844. Vester, Andrew Shoes, over 16 Vinton, Seth Cotton, inspecting machine. 3 Vinton, Seth Proyelling harrow 1 Vinton, Thomas. Grates, cooking. 5 Vogel, Kasimer Propelling boats by animal power 7 Von Schmidt, Peter <td>Varney, George D.</td> <td></td> <td></td> <td>186</td>	Varney, George D.			186
Vaser, Matthew Stoppers and plugs 11 Vaughan, Jacob K., and Evan Henry Everman Soap 4 Vaughn, Gideon, jr. Bedsteads 17 Vaughn, Jirah Balance 12 Vaughn, J. C. and Frederick Leach Pipes, casting and drawing lead 2 Vedder, Volkert Pipes, casting and drawing lead 2 Veltenair, Christian Razor, grinding 3 Verenar, Emanuel Press, lever, bottom combined 12 Veret, Peter F. L. Garments, measuring instruments 21 Verrion, Bernard E Sugar, refining 4 Vermillion, Dennis Excavating, excavator or drag, dcc 9 Vernon, John Boots, cutting the legs of 16 Verstal, Aaron H Boots, cutting the legs of 16 Vestal, Aaron H Potatoes, aveet, mode of preserving—not found in Classification; but patenned lifth August, 1844 Vine, William Cutlery, cleaning and polishing 2 Vine, William Cutlery, cleaning and polishing 2 Vinton, Seth Proyelling harrows 1 Vogel, Kasimer Weavers' harness 3 Vogel, Kasime				296
Vaughan, Jacob K., and Evan Henry Everman Soap 4 1 Vaughn, Gideon, jr. Bedsteads 17 3 Vaughn, Jirah Balance 12 2 Vaughn, J. C. and Frederick Leach Pipes, casting and drawing lead 2 2 Vedder, Volkert Plates for pressing woollen cloths 3 Veltenair, Christian Razor, grinding 2 2 Verere, Peter F. L. Garments, measuring instruments 21 3 Verplank, Bernard E. Sugar, refining 4 1 Vermon, John Excavating, excavator or drag, &c. 9 1 Vernon, John Boots, cutting the legs of 16 2 Vest, Charles Mill stones, dressing, &c. 13 2 Vest, Charles Mill stones, dressing, &c. 13 2 Vester, Andrew Potatoes, aweet, mode of preservingnot found in Classification; but patented lith August, 1844 3 Vine, William Cutlery, cleaning and polishing 2 Vine, William Knives, &c., machine for polishing 2 Vinton, Thomas Grates, cooking 5 Vogel, Kasimer <td></td> <td></td> <td>11</td> <td>220</td>			11	220
Vaughn, Gideon, jr. Bedsteads. 17 Vaughn, Jirah. Balance. 12 Yaughn, J. C. and Frederick Leach. Pipes, casting and drawing lead. 2 Vedder, Volkert. Plates for pressing woollen cloths. 3 Veltenair, Christian. Razor, grinding. 2 Venet, Emanuel. Press, lever, bottom combined. 12 Verete, Peter F. L. Garments, measuring instruments. 21 Verjon, Bernard E. Sugar, refining. 4 Vermillion, Dennis. Excavating, excavator or drag, &c. 9 Vernon, John Boots, cuttung the legs of. 16 Vernon, John Boots, cuttung the legs of. 16 Verter, Charles Mill stones, dressing, &c. 9 Vest, Charles Mill stones, dressing, &c. 13 Vest, Charles Mill stones, dressing, &c. 13 Vester, Andrew Shoes, over. 16 Viales, Lewis Cotton, inspecting machine. 3 Vine, William Cuttery, cleaning and polishing. 2 Vine, William Cuttery, cleaning and polishing. 2 Vine, William Grame of the			١.	
Vaughn, Jirah Balance 12 Vaughn, J. C. and Frederick Leach Pipes, casting and drawing lead 2 Vedder, Volkert Plates for pressing woollen cloths 3 Veltenair, Christian Razor, grinding 2 Vernear, Emanuel Press, lever, bottom combined 12 Vernear, Emanuel Press, lever, bottom combined 12 Vernear, Emanuel Garments, measuring instruments 21 Verplon Bernard E Sugar, refining 4 Vermillion, Dennis Excavating, excavator or drag, &c. 9 Vernon, John Boots, cutting the legs of 16 Verplank, Isaac B Buckles 12 Vest, Charles Mill stones, dressing, &c. 13 Vest, Charles Mill stones, dressing, &c. 13 Vest, Andrew Shoes, over 16 Vine, William Cotton, inspecting machine 3 Vine, William Cuttery, cleaning and polishing 2 Vine, William Knives, &c., machine for polishing 2 Vinton, Sath Plough, harrow 1 Vogel, Kasimer Wexvers' harness 3 <			1	116
Vaughn, J. C. and Frederick Leach. Pipes, casting and drawing lead. 2 Vedder, Volkert. Plates for pressing woollen cloths. 3 Veltenair, Christian. Razor, grinding. 2 Verner, Peter F. L. Garments, measuring instruments. 21 Vergion, Bernard E. Sugar, refining. 4 Vermon, John. Boots, cutting the legs of. 9 Vernon, John. Boots, cutting the legs of. 16 Verst, Charles. Mill stones, dressing, &c. 13 Vest, Charles. Mill stones, dressing, &c. 13 Vestal, Aaron H. Potatoes, sweet, mode of preservingnot found in Classification; but patented 16th August, 1844. 16 Viales, Lewis. Cotton, inspecting machine. 3 Vine, William. Cuttery, cleaning and polishing. 2 Vinton, Sth Propelling harrow. 1 Vinton, Thomas. Graces, cooking. 5 Vogel, Kasimer. Weavers' harnass. 3 Vogel, Ferry. Propelling boats by animal power. 7 Vogel, Ferry. Gin, cotton, improvement in. 3 Von Schmidt, Peter. Gin, cotton, improvement in. <				307
Vedtenair, Volkert. Plates for pressing woollen cloths. 3 Veltenair, Christian Razor, grinding. 2 Vernet, Peter F. L. Garments, measuring instruments. 21 Vergion, Bernard E. Sugar, refining. 4 Vermon, John Boots, cutting the legs of. 16 Vernon, John Boots, cutting the legs of. 16 Verst, Charles Mill stones, dressing, &c. 2 Vest, Charles Mill stones, dressing, &c. 13 Vestal, Aaron H. Potatoes, sweet, mode of preservingnot found in Classification; but patented 16th August, 1844. 16 Viales, Lewis Cotton, inspecting machine. 3 Vine, William Cuttery, cleaning and polishing. 2 Vinton, Sth Plough, harrow 1 Vinton, Thomas Grates, cooking. 5 Vogel, Kasimer. Weavers' harness 3 Vogele-see Kettering. Weavers' harness 3 Von Schmidt, Peter Gin, cotton, improvement in. 3 Von Schmidt, Peter Gin, cotton, improvement in. 3 Von Schmidt, Peter Propelling boats by animal power. 7	Waughn I C and Fundamiak I asah			239 55
Veltenair, Christian Venear, Emanuel Veret, Peter F. L. Veret, Peter F. L. Verjon, Bernard E. Vermillion, Dennis Vermillion, Dennis Vermon, John Verplank, Isaac B. Vest, Charles Milliam Vestal, Aaron H. Vetter, Andrew Vinton, Sisth Vinton, Sisth Vinton, Thomas Vogel, Kasimer Vogel, Kasimer Vogel, Kasimer Von Schmidt, Peter Von Schmidt, Peter Von Schmidt, Peter Von Schmidt, Peter Von Schmidt, Peter Vose, Samuel D Veres, Samuel D Veress, lever, bottom combined Garments, meesuring instruments Sagar, refining. Saga	Vadder Volkert			84
Venear, Émanuel	Veltenair. Christian			56
Veret, Peter F. L. Garments, measuring instruments. 21 Verjon, Bernard E. Sugar, refining. 4 Vermillion, Dennis. Excavating, excavator or drag, &c. 9 Vernon, John Boots, cutting the legs of. 16 Vernon, John Boots, cutting the legs of. 16 Vernon, John Buckles. 2 Vest, Charles Mill stones, dressing, &c. 13 Vest, Charles Cotton inspecting machine. 3 Vest, Charles Cotton, inspecting machine. 3 Vine, William Knives, &c., machine for polishing. 2 Vinton, Seth Plough, harrow 1 Vinton, Thomas Grates, cooking. 5 Vogel, Kasimer Weavers' harness 3 Vogel, Kasimer Propelling boats by animal power 7 Vogel, Gest, Nearles Propelling, propeller, submerged 7 Von Schmidt, Peter Gin, cotton, improvement in 3 <td></td> <td></td> <td>1 . =</td> <td>244</td>			1 . =	244
Verjon, Bernard E. Sugar, refining. 4 Vermillion, Dennis Excavating, excavator or drag, &c. 9 1 Vernon, John Boots, cutting the legs of. 16 2 2 2 2 2 2 2 2 2			21	359
Vernon, John Verplank, Isaac B. Vest, Charles Vest, Charles Vest, Charles Vestal, Aaron H. Vetter, Andrew Vetter, Andrew Vinles, Lewis Vine, William Vinton, Seth Vinton, Thomas Vegle—see Kettering Von Schmidt, Peter Von S			1 -	116
Verplank, Isaac B. Vest, Charles West, Charles Westal, Aaron H. Vetter, Andrew Vetter, Andrew Viales, Lewis Vine, William Cuttory, cleaning and polishing Vinon, Seth Vinon, Thomas Vogel, Kasimer Vogel, Kasimer Vogel, Kasimer Vogel, Kettering Von Schmidt, Peter Propelling, propeller, submerged Von Schmidt, N. S Salt water, purifying Von Schmidt, Peter Voorhies, Charles F Printing machine 18 Vose, Samuel D Stove, box, (design) 5				195
Vest, Charles				293
Vestal, Aaron H. Potatoes, sweet, mode of preserving—not found in Classification; but patented 16th August, 1844. Vetter, Andrew Shoes, over				258
Vetter, Andrew			1.5	
Vetter, Andrew Shoes, over 16 Viales, Lewis Cotton, inspecting mechine 3 Vine, William Cutlery, cleaning and polishing 2 Vine, William Knives, &c., machine for polishing 2 Vinton, Seth Plough, harrow 1 Vinton, Thomas Grates, cooking 5 Vogel, Kasimer Weavers' harness 3 Vogle—see Kettering Propelling boats by animal power 7 Von Schmidt, Peter Gin, cotton, improvement in 3 Von Schmidt, Peter Preserving timber by impregnation 4 Von Schmidt, Peter Propelling, propelling, submerged 7 Von Schmidt, Peter Propelling, propaller, submerged 7 Von Schmidt, Peter Propelling, propaller, submerged 7 Von Schmidt, Peter Propelling, propaller, submerged 1 Voorhies, Charles F Printing machine 18 Vose, Samuel D Stove, box, (design) 5 Stove, parlor, (design) 5	, <u>, , , , , , , , , , , , , , , , , , </u>	not found in Classification; but pat-	l	
Viales, Lewis Cotton, inspecting mechine 3 Vine, William Cutlery, cleaning and polishing 2 Vinton, William Knives, &c., machine for polishing 2 Vinton, Sath Plough, harrow 1 Vinton, Thomas Grates, cooking 5 Vogel, Kasimer Weavers' harness 3 Vogel, Kasimer Propelling boats by animal power 7 Von Schmidt, Peter Grin, cotton, improvoment in 3 Von Schmidt, Peter Propelling boats by animal power 7 Von Schmidt, Peter Propelling, propeller, submerged 7 Von Schmidt, Peter Propelling, propeller, submerged 7 Von Schmidt, Peter Salt water, purifying 4 Voorhies, Charles F Printing machine 18 Vose, Samuel D Stove, box, (design) 5 Vose, Samuel D Stove, parlor, (design) 5	Vetter. Andrew		16	300
Vine, William Cutlery, cleaning and polishing 2 Vine, William Knives, &c., machine for polishing 2 Vinton, Sath Plough, harrow 1 Vinton, Thomas Grates, cooking 5 Vogel, Kasimer Weavers' herness 3 Vogel, Henry Propelling boats by animal power 7 Von Schmidt, Peter Gin, cotton, improvement in 3 Von Schmidt, Peter Propelling propellor, submerged 7 Von Schmidt, Peter Propelling, propellor, submerged 7 Von Shoultz, N. S Salt water, purifying 4 Voorhies, Charles F Printing machine 18 Vose, Samuel D Stove, box, (design) 5 Vose, Samuel D Stove, parlor, (design) 5				71
Vinton, Seth Plough, harrow 1 Vinton, Thomas Grates, cooking 5 Vogel, Kasiner Weavers' harness 3 Vogle—see Kettering Propelling boats by animal power 7 Von Schmidt, Peter Gin, cotton, improvement in 3 Von Schmidt, Peter Preserving timber by impregnation 4 Von Schmidt, Peter Propelling, propeller, submerged 7 Von Schmidt, Peter Salt water, purifying 4 Voorhies, Charles F. Printing machine 18 Vooshurg, John Thrashing machine 1 Vose, Samuel D Stove, box, (design) 5 Vose, Samuel D Stove, parlor, (design) 5	Vine, William			41
Vinton, Thomas	Vine, William			46
Vogel, Kasimer. Weavers' harness. 3 Vogle—see Kettering. Propelling boats by animal power. 7 Voight, Henry. Propelling boats by animal power. 7 Von Schmidt, Peter. Gin, cotton, improvement in. 3 Von Schmidt, Peter. Propelling propeller, submerged. 7 Von Schmidt, Peter. Propelling, propeller, submerged. 7 Von Schmidt, Peter. Propelling, propeller, submerged. 7 Von Schmidt, Peter. Propelling propeller, submerged. 7 Voorhies, Charles F. Printing machine. 18 Vose, Samuel D. Threshing machine. 1 Vose, Samuel D. Stove, box, (design). 5 Vose, Samuel D. Stove, parlor, (design). 5	Vinton, Seth	Plough, harrow		
Vogle—see Kettering. Propelling boats by animal power				125
Voight, Henry	Vegle en Kettering	w exvers nerness	3	39
Von Schmidt, Peter	Voight Henry	Propelling hosts by enimal names	7	179
Von Schmidt, Peter. Preserving timber by impregnation. 4 I Von Schmidt, Peter. Propelling, propeller, submerged. 7 Von Schmidt, Peter. Salt water, purifying. 4 Voorhies, Charles F. Printing machine. 18 Voorhies, Charles T.—see Tuttle. Printing machine. 1 Vose, Samuel D. Stove, box, (design). 5 Vose, Samuel D. Stove, parlor, (design). 5	Von Schmidt, Peter			75
Von Schmidt, Peter	Von Schmidt, Peter	Preserving timber by impregnation		111
Von Shoultz, N. S. Salt water, purifying. 4 Voorhies, Charles F. Printing machine. 18 Voorhies, Charles T.—see Tuttle. Threshing machine. 1 Vose, Samuel D. Stove, box, (design). 5 Vose, Samuel D. Stove, parlor, (design). 5	Von Schmidt, Peter	Propelling, propeller, submerged	7	175
Voorhies, Charles F	Von Shoultz, N. S	Salt water, purifying	4	176
Vosbarg, John Threshing machine. 1 Vose, Samuel D Stove, box, (design). 5 Vose, Samuel D Stove, parlor, (design). 5	Voorhies, Charles T.—see Tuttle.	Printing machine	18	357
Vose, Samuel D	Vosbarg, John	Threshing machine	1	35
Vose, Samuel D	Vose, Samuel D	Stove, box. (design)	5	13
vose, Samuel D Stove, Franklin, (design) 5	Vose, Samuel D	Stove, parlor, (design)	5	14
Vogo Normai D	Vose Samuel D	Stove, Franklin, (design)	. 5	15
Vose, Samuel D	Vone Samuel D	Store cooking, (design)	2	10

	THYENTIONS OR DISCOVERSON.	CLASS.	PAGE.
Vose, Samuel D	Stove, (design)	5	181
Vose, Samuel D.—see Wilder, J. N.			1.
Votee, George Vought, John G	Medicine, anti-dysenteric	1 4	111
Vrooman, John N	Bridges, floating swing	9	199
			0.50
Wade, Abraham	Pendulum, power	13 17	255 311
Wade, Elias Wade, Horatio B	Cooking stove	5	139
Wade, James T	Straw cutter	1	27
Wade, John	Sails for ships, &c	7	177
Wade, Orin D	Washing machine, and falling	17	318
Wade, Robert M	Palm leaf, machine for splitting	13 22	257 358
Wadsworth, Charles	Palm leaf, machine for splitting	22	358
Wadsworth, Eli	Balance, weighing machine	19	240
Wadsworth, John	Gauge, and jointer	14	268
Wadsworth, John A	Steam engine, rotary	6	160
Wadsworth, John A	Cutting horse scythe	1 6	153
Wadsworth, John A	Evaporator, compound	21	351
Wadsworth, William	Engine, fire, domestic	ĩi	221
Wadsworth, Wm	Brick press	16	286
Wadsworth, Wm	Boats, anti-steam	7	168
Wadsworth, Wm	Washing machine	17	314
Wadsworth, Wm	Wire drawing	28	179
Wadsworth, Wm	Propelling boats	13	253
Wager, James	Stoves, cooking	5	H
Wager, James		5	137
Waggenet, Edward M	Plough, bar share	1	19
Wagner, Hugh K	Dock, floating, dry	3	194
Wagner, Joseph	Character minding	17 13	312 250
Waite, G. W	Chocolate, grinding Heating chocolate ingredients	5	130
Waite, John	Brick press	15	28
Wakelee, Platt	Flax and hemp, dressing	3	75
Walcott, A. S.—see Waring, G. E.		1	Ι.
Walcott, Freeman—see J. H. Hutchin-	ĺ	l	
son. Walcott, Norman and A	Distilling all kinds of liquors	4	104
Wakett, Truman	Shingles, cutting	14	278
Walden, J. T. and T	Wire drawing	2	63
Waldo, George D	Smut machine	1	24
Waldo, Orson		11	230 108
Wales, Benjamin	Glue, fish	13	25
Wales, George	Hulling clover seed, &c	ĭ	13
Wales, Hiram	Stoves, air funnel	5	137
Walgemore, Samuel	Elevator bucket, or hopper boy	13	251
Walker, Andrew, jr	Stoves, cooking, heating and illumi-		
Walker & Braylev	Hulling clover seed &c	š 1	143
Walker & Brayley	Brakes, &c	10	20.
vv alker, Dean	Wheels, car, drilling, &c	10	213
Walker Daniel	Piano forte wrest nin of	18	326
Walker, David M	Pump, rotary	11	227
Walker, Elisha	Winnowing mochine 4e	16 1	299
waiker. Enoch	Winnowing machine &c	i	3
Walker, Enoch	Washing machine	17	31
	n	مُنا	
Walker, E. L., and G. W. Cherry Walker, F. M.—see Howlet, J. W.	Plano forte	18	320

PATRYTHES.	intentions or discovering.	CLASS.	PAGS.
Walker, F. M.—see Howlet, J. W.			
Walker, George.	Furnaces, heating buildings	5	198
Walker, James W	Thrashing machine	1	96
Walker, Jeremiah	Lever power, sawing, &c., by	12	941
Walker, John W	Hulling rice	1	14
Walker, J. C.—see Wilson.	Purene	11	225
Walker, J. F	Pumps	i	24
Walker, Nathaniel	Cooking stove	5	140
Walker, Peter,	Cock, stop	11	220
Walker, Richard	Loom, stocking, rotary power	3	828
Walker, Richard	Water wheel, and applying water to	1 i	230
Walker, Richard, and Jefferson McIntire		3	81
Walker, Robert	Plough, shovel cutter	.1	21
Walker, S. T	Hydrants	11	223 223
Walker, S. T	Hydrante	·3	91
Walker, Thomas	Spinning mule, cotton	1	18
Walker, Wm. B.	Yarn, woollen	3	9
Walker, William, and Matthew C	Ploughs	ĭ	î
Walkly, Nelson	Electro-magnets, changing the poles,	_	
	&c	8	18
Wall, Arthur	Composition, coating metallic surfaces	4	10
Wall, Arthur	Metal. manufacture of	.2	51
Wall, John	Chairs, bottoms, table tops, &c	17	314
Wall, Richard	Pipes, leaden	2	55
Wall, Richard	Composition, for copy writing, &c	7	109 171
Wallace, James	Moulds for shaping timbers of boats Crank, wheel, motion	13	251
Wallace, John F.—see Houghton.	Orana, wheel, model,	13	
Wallace, Jos	Tide mills, and current	11	222
Wallace, M. T	Boilers, steam	-6	151
Wallace, Thomas	Wire, from steel, &c	2	64
Wallace, Thomas	Metal, preparing for manufacturing		
*** · · · · · · · · · · · · · · · · · ·	into wire	2	51
Wallace, Victor M	Pistois, pocket	19	330
Wallace, Webb, and Joseph Flemming.	Callers marks for	16	399 193
Wallack, Henry	Cellars, vaults, &c	9 13	24
Walley, Samuel S	Bands, spiral, wheel	13	19
Walley, Samuel S	Canal and railroad combined	9	190
Wallis, Randall	Thrashing machine	ĭ	9
Wallis, Samuel	Balance, scale and beams	12	23
Walsh, Richard	Cement, wood, brick, stone, &c	4	166
Walston, Samuel	Thigh fractured, apparatus for	20	343
Walter, Horatio N	Washing machine	17	310
Walter, Lorenzo D. and Jacob Walter	Screws, bolts, pins, and rivets, making		5
Walters, George T	Grinding mills,	13	25
Walters, Jac. F	Cooking fixtures for, &c	5	19
Wakhers, Friderick Walton, Azariah	Spinning fliers, cotton warn.	11 3	9
Walworth, Daniel	Spinning fliers, cotton yarn	2	5
Walworth, Joseph	Nails, iron, brass, and composition, &c.		5
Walworth, Joseph	Melting metals	$\tilde{2}$	5
walworth, Thomas P	Blocks, sheaves, moulding bushes, &c.	7	16
Wampler & Matthew	Tanning	16	39
Wanbaugh, G.—see Jessop, J.			
Wapples, Jas. W.	Spark catcher	6	• 15
Waral, Henry	Furnace, cupola	2	4
Ward, Allen	Garments, cutting	21	35
Ward, Allen		21	35
Ward, Allen	Garments, measuring, and marking	41	الحن
	Out coats	91	362
		~~	

PATENTERS.	пувитюни ов Dисфиналь.	CLASS.	PAGE.
Ward, Allen	Garments, ruler, triangular measure	21	0.50
Tarand Allen	Tailors' measures	21	369 364
Ward, Allen D	Distilling, cooling the mash, &c	21	105
Ward & Allison	Candlestick holder, economical	5	124
Ward, Ezekiel G	Grist mill	13	254
Ward, Foster D	Saddles	16	299
Ward, Gilbert S	Umbrellas	21	354
Ward & Hall	Gas, inflammable, &c	4	108
Ward, Hammond	St ne, dressing	15	290
Ward, Henry M.—see Lowber, R. W.	Datab blocking schoolsk	١.	
Ward, Joseph H	Potash, bleaching ashes with	3	114 75
Ward, Levi, assignee of P. Atwell Ward, Minus	Steam engine	6	156
Ward, Minus	Gas and heated air power	6	154
Ward, Richard	Clock, self-moving, &c		209
Ward, Richard	Coaches, post and other		209
Ward, Richard	Marine railway	9	197
Ward, Ulysses	Brick press, and delivering	15	287
Wardrop, James	Thrashing machine	1	98
Ware, Alfred, jr.	Loom		79
Ware, Jacob	Cancers, drawing and curing		341
Ware, Justin	Mill, grinding all kinds of grain	13	267 109
Ware, Peter U	Hats, forming, wool and rorum	9	77
Waring, Geo. E			9
Waring, George E	Furnaces, portable	5	129
Waring, George E. and Richard E. Peter-			
son, (administrators of A. S. Wolcott,		_	
deceased)	Range, kitchen	5	135
Waring, George E. and Richard E. Peter-		1	Ì
son, (administrators of A. S. Wolcott, deceased, and John Johnson.) Johnson		!	I
not administrator as in class	Cotton, improvement in spinning	3	71
Waring, Isaac F	Churn	i	6
Waring, John	Refrigerator	1	313
Waring & Philips	Nails, manufacturing		53
Warner, Alfred	Raising canal boats, &c		199
Warner, Chapman	Pump	11	225
Warner, Chapman	Pump		225
Warner, Chapman	Water wheel, horizontal	11	233
Warner, Chauncey E.—see Stevens	37		000
Warner, Chauncey E	Veneers, cutting and straightening	14	282
Horn	Flax and hemp, breaking, &c	3	72
Warner, Ebenezer C	Cement, hydraulic, from basanite	4	101
Warner, Ephraim	Press, cheese	12	241
Warner, Erastus	Cooking stove, boiling and steam	5	142
Warner, Ransom	Suspenders, manufacturing, gum, &c.	21	354
Warner & Robinson	Harness, horse, collars, &c		297
Warner, Samuel and others	Boots and shoes, heels of		294
Warner, Thomas	Thrashing machine		29
Warner, Thomas E	Churn, tin	1 3	7
Warner, Uriel G	Carding machine		136
Warrell, Isaac	Bark mill, cutting, &c	1 -=	250
Warrell, Jacob	Hulling clover seed	ĭ	13
Warren, Admiral	Boring and tenoning	14	266
Warren, Admiral	Grist mill	13	253
Warren, Admiral	Horse mill	13	255
Warren, David	Washing machine	17	317
Warren, Edmund	Loom	. 3	80
Warren, Edmund	Loom	3	80
Warren, Edmund	Loom	3	80

PATENESSES.	inarmicons ou discombine.	CLASS.	PAGE
Warren, Edmund	Threshing machine	1	1
Warren, Edmund	Thrashing machine	1	1
Warren, Edmund	Thrashing machine	Ţ	
Warren, Edmund	Thrashing machine	1	
Warren, Edmund	Thrashing rice	1	4
Warren, Edmund	Thrashing and winnowing machine.	i	
Warren, Edmund	Thrashing and flax breaking machine. Straw cutters	i	9
Warren, Edmund	Horse power	18	9
Warren, Edmund	Flax and hemp breaking	3	3
Warren, John T., and Edmund Warren.	Thrashing machine	1	3
Warren, Joseph	Printing apparatus	18	39
Warren, Josiah	Lamps, fat, &c., burning	5	13
Warren, Josiah	Typography, universal	18	36
Warren, J. Wright, ir	Batha, portable	20	34
Warren, Samuel R	Piano forte	18	3
Warren, Thomas E	Paints, water-proof	4	11
Warrington and Scatterford	Pessaries	20	3
Washburn, Albert	Gin, cotton, grates of saw-gin	3 2	3
Washburn, Calvin	Door fastener	10	9
Washburn, Carver		16	3
Washburn, Philo	Saddles, trees, harness	3	1
Washburn, Thomas S	Saw mile	14	9
Washington, David	Press, tobacco	12	9
Waste, E., N. Wellington, & D. Hutchins		2	1
Waste, Oramel W	Chronometer escapements	8	li
Watchman and Bratt	Excavator, mud machine	9	11
Watchman, John	Iron, sheet or plate, bending	2	4
Waterbury, Lewis and Tal	Water wheel, driving and shoot	11	23
Waterhouse, Benjamin	Raising vessels for repair	7	11
Waterhouse, Ezra	Churn, double dash	1	l,
Waterhouse, Ez	Oakum, picking	3	
Waterhouse, Ez	Press, hay, double box	12	9
Waterhouse, Horauo W	Thrashing grain, hulling, &c	3	1 1
Waterman and Annis	Paper, on machines, &c	15	2
Waterman, Calvin	Propelling boats by step-wheel	7	1
Waterman, F., 3d Waterman, George	Washing machine	17	ā
Waterman, Henry	Vessels, connecting tiller with the rud-		
,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	der, &c	7	1
Waterman, Henry	Brick, moulding, &c	15	2
Waterman, Henry	Brads, cutting	2	1 4
Waterman, Henry	Steam engine, locomotive	6	1
Waterman, Henry	Pross, cotton		24
Waterman, Henry	Brick press	15	
Waterman, John	Loom temple, sliding	3	
Waterman, Joseph and James	Flax and hemp, &c., combing, &c	15	9
Waterman and Learned Waterman, Nathaniel	Brick, moulding, &c	20	3
Waterman, Stephen—see Russell.	Date, and well, printeduction		
Waterman, Stephen, and Isaac D. Russel	Rigging, blocks of ships	7	1
Waterman, William G		16	2
Waters, Asa	Barrels, gun, turning	19	3
Waters, Asa	Water wheel, spring bucket	11	2
Waters, Asa		7	1
Waters, Asa	Barrels, gun		3
Waters, Hiram	Coopering	14	
Watkins, Andrew	Ruddens		1
Watkins, David			1
Watkins, H			ł
Watking, Kobert	Gin, cotton	3	
Watrous, Cyrus	Lead, white, and Paris white	4	1 1

PATANTESI.	INVENTIONS OR DISCOVENIES.	CLASS.	PAGE.
Watson, Charles A	Metion, reciprocating, &c	13	259
Watson, Cornelius	Tread wheel	13	250
Watson, Daniel	Brick, moulding	15	286
Watson, Daniel	Pump, suction	11	227
Watson, David	Washing machine	17	316
Watson, David	Washing machine	17	315
Watson, David	Wheels, boxes, and hubs, & hanging,		
	&c	10	213
Watson, Eleazer	Counterfeit notes, protecting	18	322
Watson, E. Y	Washing machine	17	317
Watson, John	Sugar, &c., filters for	4	117
Watson, Joseph	Hee	1	12
Watson, Joseph	Fetters for horse	2 3	42 73
Watson, J. Y., J. Blossom, & A. Burnett		2	5 8
Watson, Peter H	Screws, machinery for cutting	2 2	43
Watson and Robinson	Forge and other furnaces, &c	5	135
Watson, William	Stoves	i	18
Watt, George	Plough	3	91
Watts, Benjamin F	Tides and currents, representation of.	7	178
Way, Baruch	Bench	14	266
Weaver, Abraham	Distilling apparatus	4	104
Weaver, Daniel.	Truss, double spring	20	344
Weaver, Daniel	Water wheel	ĩi	231
Weaver, George M	Corn, grinding, &c	13	251
Weaver, John	Plough	1	17
Weaver, John	Plough, listing, &c	1	20
Weaver, John	Cultivator, for thinning cotton, &c	1	10
Weaver, Samuel	Winnowing wheat	1	36
Weaver, William J	Chairs, eagle	17	310
Weaver, William W	Stove pipes	5	146
Webb, Augustus V. H.	Distilling alcohol from whiskey	4	104
Webb, Augustus V. H	Turpentine, oil of, rectifying	4	118
Webb, Augustus V. H	Lamp, camphine	5	132
Webb, Augustus V. H	Distilling, cold	4	105
Webb, Augustus V. H.	Lamps, for volatile materials	5	183
Webb, Benjamin	Saw mill, carriage, self-setting, &c	14 14	275 276
Webb, Benjamin	Saw mills, self-setting	î	5
Webb, Benjamin	Churn	î	3
Webb, Constant	Churn.	î	7
Webb & Cox	Press, choese	12	241
Webb, James W	Rake, horse	ĩ	22
Webb, James W	Corn shelling	ī	9
Webb, John G.	Distilling still, worm for	4	107
Webb, Jeseph	Dock, dry, rotary	9	193
Webb, Joseph	Marine railway	9	197
Webb, Joseph W	Straw outter	1	27
Webb, Joseph W	Mill, paint	13	257
Webb, Joseph W	Straw outters	1	27
Webb, Joseph W	Vegetable cutters	17	314
Webb, Jeseph W	Quilting frames, coupling in	17	313
Webb, Joshua	Sawing timber	14	277
Webb, Orange	Buckles for suspenders	21	349
Webb, Orange	Spenders, manufacturing	21	363
Webb, Orange	Suspenders, straps	21	354
Webber, Henry	Cheese, machine for turning, &c	17	310
Webber, Henry	Cheese, turning and curing	.1	4
Weber, Adam	Clay, potters?, purifying	15	288
Webster, Alpheus	Spinning fax and hemp	3	89
Webster, Alpheus.	Spinning mackine	3	90
Webster, Daniel A	Thrashing machine, spring beater, &c.	1 1	33
Webster, Daniel A	Thrashing machine		-81 78
Webster, David W	TREMEMOR AND DAY Dreaker	1	. 743

PATENTYSES.	, INVERSIONS OF DISCOVERSES.	CLASS.	PAG
Vebrier, George	Types, casting moveable	18	31
Vebster, James W	Smut machine	ĭ	1
Vebster, Jarvis	Corn, grinding	15	91
Vebster, John	Boring	14	9
Vebster, Joseph H	Pumps	11	95
Vebster, Wait	Boots and shoes, gum elastic, &c	16	25
Veed & Fellows	Smut machine	1	9
Veed, Henry	Grist mill, portable	13	25
Veed, Shadrach H	Brush, brooms, &c., of grass	17	31
Veed, Shadrach H	Broom making	17	3
Veed, William K	Thrashing machine	1	1
Vecks, Constant H	Apples, grinding	13	94
Veeks, John M	Beehive	1	1
Veeks, John M	Beehives	1	
Veems, John W	Press, tobacco	12	9
Veems, Richard	Wind wheel	111	2
Veems, Richard	Fencing	22	3
Veisman, Joseph	Paints, fire and water proof	4	1
Veitzel, Jacob	Distilling, still for	4	1
Velbor, Borden	Steam engine	6	1
Velch, Daniel	Grinding tools, &c	9	1 -
Velch, Jacob	Earth, removing	7	1
Veld, Edward D.—ees Bird.	Salt manufacturing apparents	4	1
Veld, Ezra Veld, Ezra	Salt, manufacturing apparatus		3
Veld, Ezra.	Washing machine		3
Velford & Deas	Plane, carpenters'		9
Veller, Pliny	Thrashing machine.	1 1 1	-
		1	ł
Vellman, Timothy, jr	Rake, hay, revolving		9
Vella, Garden and Sophia	Hats, bonnets, of grass		1
Vells, Henry A	Hats		3
Vells, Henry A.	Felt cloths, hardening		
Vells, Henry A	Felt cloths, &c., shrinking		1
Vells, Henry A	Felt cloths, &c., planking, &c		1
Wells, Horace		1	3
Vells, Horace	Coal sifters	1	1
Vells, H. A., J. James, and R. W. Peck			
Vells, H. A., J. James, and R. W. Peck			1
Vells, James, jr.	Fish vessels and nets		1
Wells, John J.	Printing press		3
Vells, John J	Printing press		3
Vells, John J	Carriages, hanging and placing steps, &c		2
Velle, John J.	Bookbinders' press		3
Wells, John J	Paint mill		2
Vella, Lee.	Casks, cutting head for	14	2
Vells, Lewis, J. B	Colors, imprinting	18	1 3
Vella, L. L	Sacking bottom		3
Vells, Moses D	Plough, shovel		1
Wells, Nathan	Winnowing machine		1 .
Wells, Philip	Water wheel		1 3
Vells, Samuel	Rigging vessels		1
Vells, Samuel	Truss, lever and sling		
Wells, Samuel A	Trues, lever and sling, &c	7	1
Wells, Samuel A	Yards of vessels, suspending	. 7]
Meils, Thomas J			1 3
Wells, Thomas J	Steamboats, constructing, &c	. 7	1 3
Wells, Thomas J		13	1 3
Wells, Thomas J	Horse power		1 3
Wells, Thomas J	Dovetails and tenons, cutting	. 14	1 2
Wellstood, John G., assignee of Salathie			١,
Ellis. Welsh, Elijah W	huysen, design	18	
Weish & Evens	Mill bushing, &c	. 13	1 2

Pate ntin i.	INVENTIONS OR DISCOVERINGS.	CLESS.	PAGE.
Welsh, Samuel, and Thomas Linecree	Fire escape	22	357
Welshman, Edward	Resuscitation, apparatus for	20	342
Welty, George	Hides, dressing	16	297
Wemmer, Nilson John	Saws, apparatus for filing	2	57
Wemple, Jacob V. A	Thrashing machine, horse power	1	32
Wemple, Jacob V. A., and George West- inghouse.	Thrashing and winnowing machine,	-	
Wendt, Hermann	dc., grain separators	91	33 353
Wenman, Thomas F	Cock, filtering	21 11	220
Wenn, Peter	Heat applying, from lime, &c	5	130
Wentworth, Thomas	Cooking stove and Franklin	5	143
Wenzell, John C	Flax and hemp machine	3	773
Wernwag, Lewis	Bridges	9	191
Wernwag, Lewis	Bridges	9	192
Wernwag, Lewis	Car, railroad, self-directing	10	207
West, Ammi	Cocks, molasses gate	11	220
West, Ammi	Power, manuel, &c	13	260
West, Amoni.	Thrashing grain	1	28
West, A.—see Holmes, John.			}
West, Charles E	Plane irons	2	55
West, Christopher	Lamp, construction of	5	132
West, David	Chlorine, cosmetic	4	102
West, Edward	Lock, gun	19	335
West, Edward	Armlets	18	321
West, Edward	Steamboat	7	177
West, Edward	Nails, cutting	2	51
West, Erastus C	Nails, cutting and heading	2	52
West, George B	Harvesting machine	i	12
West, Henry	Wagon, coaches, and breaks for	10	212
West, John	Ovens	5	134
West, John	Washing machine	17	315
West, Joshua S	Thrashing machine	i	30
West & Loring	Balance	12	239
West, Stacy	Hulling clover seed	1	13
West, Stacy	Thrashing grain	1	28
West, Stacy	Thrashing and clover seed machine	1	27
West & Stevens.	Hats, bodies	3	76
West, Thomas J	Railroad, road stops for	9	198
West, Uel	Pipes, conduit, coupling	11	224
West, Uel, and George Dobbs	Cocks, stop	11	220
West and Von Sickle	Stoves	.5	136
West, Wm	Ornamenting walls and ceilings	18	324
Western, Henry M	Tide power	11	229
Weston, Charles	Cooking apparatus	5	125 300
Weston, Henry	Shoes, cutting out	16 2	55
Weston, Nathan	Pins, making Hats, cemented	3	77
Weston, Thomas	Distilling still, boiler, &c	4	106
Weston, Thomas	Writing, mode of teaching	18	329
wethered, John	Vice	2	62
Wetmore, John	Churn	ĩ	5
Whaley, Thomas	Locks and holts &c	2	49
Wharif. Amasa	Churn	1	7
w neatiey & Beanmont	Stove pipe, manufacturing	2	61
w neariey, James	Distilling still, condensing tub	4	106
Wheatly, Henry W	Propelling boats by screw power	7	174
W heaton, Caleb	Stoves	5	135
w heaton, James	Grinder, elliptical spindle	13	252
Wheaten, Jesse	Bitters, jaundice	4	100
Wheatstone, Charles, and William F.	M3.1	ا ہا	
Cooke	Telegraph, electro-magnetic	8	186
Wheeler, Alonze and W. C	Transaction and the second	13	256

	INVENTIONS OR DISCOVERSE.	CLASS.	PAGE.
Wheeler, Artemas	Berrels, gun, rifle, or plain	19	200
Wheeler, Benjamin	Salt, manufacturing	4	115
Wheeler, Benjamin	Salt, manufacturing,	4	114
Wheeler, Charles	Lamp, light-house	5	120
Wheeler, Charles R	Stoves, parlor grates, &c	5	146
Wheeler, Clark	Bee hives	1	4
Wheeler, Dexter	Water wheel, tide	11	234
Wheeler, Ephraim	Washing machine	17	315
Wheeler, Hiram F	Spinning machine, domestic	3	91
Wheeler, Hiram F	Spinning wheel, improvement in	3	93
Wheeler, Ira	Cutting grass, &c	1	11
Wheeler, John R	Thrashing machine	1	31
Wheeler, John R	Water wheel	11	231
Wheeler, John R	Water wheel	11	200
Wheeler, J. R. and J. B	Spinning machine	3	96
Wheeler, J. R. and J. B	Spinning machine	3	90
Wheeler, J. R. and J. B	Spinning, roping, wool	3	99
Wheeler, John W	Spinning cotton and wool	3	89
Wheeler, Joseph B	Spinning machine	3	90
Wheeler, Oliver	Shingle machine	14	27
Wheeler & Powell	Horse wheel, inclined, &c	13	25
Wheeler, Reuben	Washing machine	17	31
Wheeler, William	Curry comb	2	41
Wheeler, William	Flax dresser	3	7
Wheeler, William M	Pump	11	99
Wheeler, Zaccheus	Spinning machine	3	9
Whelan, E	Lamps, regulating interior draught by	5	13
Whelpley, H.—see Olney, H.			
Whetmore, Jared B	Balance, compound lever	12	93
Whetstone, John L	Locks, for doors of bank vaults	2	50
Whetstone, J. L., and P. C. Guion		2	45
Whipple, Cullen	Screws, cutting machine for	2	5
Whipple, Cullen	Loom, weaving	3	8
Whipple, Cullen—see Hodges.			
Whipple, Cullen—see Hodges.			
Whipple, Cullen—see Hodges.			ĺ
Whipple, C., J. Sprague, and M. T.			
Whipple	Lathe, turning irregular forms	14	26
	Washing machine		
Whipple, John F		17	31
		17	
Whipple, Milton D	Axes, forming the eyes of	17 2	3
Whipple, Milton D	Axes, forming the eyes of	17 2 3	3
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon.	Axes, forming the eyes of	17 2 3 2	9
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire.	Axes, forming the eyes of	17 2 3 2 9	3 9 4 19
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Squire.	Axes, forming the eyes of	17 2 3 2 9	3 9 4 19 7
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whips, John	Axes, forming the eyes of	17 2 3 2 9 3	3 9 4 19 7 10
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whisler & Smith	Axes, forming the eyes of	17 2 3 2 9 3 4 2	15 7 16 4
Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Squire. Whipple, Sylvester G. Whipple, John. Whisler & Smith. Whitaker, John.	Axes, forming the eyes of	17 2 3 2 9 3 4 2	19 4 19 7 10 4
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whisler & Smith. Whitaker, John.	Axes, forming the eyes of	17 2 3 2 9 3 4 2 10	19 4 19 7 10 4 21
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whisler & Smith Whitaker, John. Whitcomb, Aaron. Whitcomb, Henry.	Axes, forming the eyes of	17 2 3 9 3 4 2 10 10	3 9 4 15 7 10 4 21 21
Whipple, Milton D. Whipple, Solomon. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whipple, John. Whisler & Smith. Whitaker, John. Whitcomb, Aaron Whitcomb, Henry.	Axes, forming the eyes of Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for Distilling, rectifying. Gold, separating and grinding. Wheels Tire bending, &c Cannon, method of discharging Saw mills	17 2 3 9 3 4 2 10 10 19	3 9 4 19 7 10 4 21 33 33
Whipple, Milton D. Whipple, Solomon. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whisler & Smith Whitcomb, Aaron Whitcomb, Henry. Whitcomb, Hiram.	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for Distilling, rectifying. Gold, separating and grinding. Wheels. Tire bending, &c Cannon, method of discharging. Saw mills. Distilling, still for.	17 2 3 2 9 3 4 2 10 10 19 14	19 77 10 4 21 33 27
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whisler & Smith. Whitcomb, Aaron. Whitcomb, Henry. Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, T. N. and J. M.	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for. Distilling, rectifying. Gold, separating and grinding. Wheels. Tire bending, &c Cannon, method of discharging. Saw mills. Distilling, still for. Water wheel.	17 2 3 9 3 4 2 10 10 19 14 4 11	33 9 4 19 77 10 4 21 33 27
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whister & Smith Whitaker, John. Whitcomb, Aaron Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, T. N. and J. M. Whitcomb, William	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for. Distilling, rectifying. Gold, separating and grinding. Wheels Tire bending, &c Cannon, method of discharging. Saw mills Distilling, still for. Water wheel. Beehive	17 2 3 2 9 3 4 2 10 10 19 14 4 11	39 94 19 77 100 44 21 21 33 37 10
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whipple, Sylvester G. Whipple, Sylvester G. Whisler & Smith Whitcomb, Aaron Whitcomb, Henry. Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, T. N. and J. M. Whitcomb, William	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for Distilling, rectifying. Gold, separating and grinding. Wheels Tire bending, &c Cannon, method of discharging. Saw mills Distilling, still for. Water wheel. Beehive Stamps for post office.	17 2 3 2 9 3 4 2 10 10 19 14 4 11 1	38 9 4 15 7 100 4 21 21 33 37 10 22
Whipple, Milton D. Whipple, Solomon. Whipple, Solomon. Whipple, Squire. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whisler & Smith. Whitaker, John. Whitcomb, Aaron. Whitcomb, Henry. Whitcomb, Hiram. Whitcomb, T. N. and J. M. Whitcomb, William White, Asa. White, Canyas.	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for Distilling, rectifying. Gold, separating and grinding. Wheels. Tire bending, &c Cannon, method of discharging. Saw mills. Distilling, still for. Water wheel. Beehive Stamps for post office. Cement, water proof.	17 2 3 2 9 3 4 2 10 10 19 14 4 11 11 18	39 4 19 7 100 4 21 21 33 37 10 93
Whipple, Milton D Whipple, Milton D Whipple, Solomon. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G Whips, John. Whisler & Smith Whiteler & Smith Whitomb, Aaron Whitcomb, Henry. Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, T. N. and J. M White, Asa. White, Canvas.	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for. Distilling, rectifying. Gold, separating and grinding. Wheels. Tire bending, &c Cannon, method of discharging. Saw mills. Distilling, still for. Water wheel. Beehive Stamps for post office. Cement, water proof.	17 2 3 2 9 3 4 2 10 10 10 19 14 4 11 11 18 4	39 4 19 77 166 4 21 33 37 16 25 30 21 16 21
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whister & Smith Whiteomb, Aaron Whitcomb, Henry. Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, Whitcomb, Hiram. Whitcomb, Whitcomb, Hiram. Whitcomb, Whitcomb, Hiram. Whitcomb, William White, Asa. White, Canvas. White, Canvas. White, Cosman.	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for Distilling, rectifying Gold, separating and grinding. Wheels Tire bending, &c Cannon, method of discharging. Saw mills Distilling, still for. Water wheel. Beehive Stamps for post office. Cement, water proof. Cement, water proof. Boot crimps	17 2 3 9 3 4 10 10 19 14 4 11 18 4 4	21 21 21 31 32 32 32 32 32 32 31 32 32 32 32 32 32 32 32 32 32 32 32 32
Whipple, Milton D. Whipple, Solomon. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whipple, Sylvester G. Whipple, Sylvester G. Whipple, Sylvester G. White & Smith Whitcomb, Aaron Whitcomb, Henry. Whitcomb, Henry. Whitcomb, Hiram. Whitcomb, T. N. and J. M. Whiteomb, William White, Asa. White, Canvas. White, Canvas. White, Cosman. White, David.	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for Distilling, rectifying. Gold, separating and grinding. Wheels Tire bending, &c Cannon, method of discharging. Saw mills Distilling, still for. Water wheel. Beehive Stamps for post office. Cement, water proof. Cement, water proof. Boot crimps. Distilling spirits, still slops.	17 2 3 9 3 4 2 10 10 19 14 4 11 18 4 4	11 10 21 21 22 33 34 34 34 34 34 34 34 34 34 34 34 34
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Squire. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whisler & Smith Whitcomb, Aaron Whitcomb, Henry. Whitcomb, Hiram. Whitcomb, T. N. and J. M. Whitcomb, William White, Asa. White, Canvas. White, Cosman White, David. White, David. White, Elihu, assignee of G. W. Grater.	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for Distilling, rectifying. Gold, separating and grinding. Wheels. Tire bending, &c Cannon, method of discharging. Saw mills. Distilling, still for. Water wheel. Beehive Stamps for post office. Cement, water proof Cement, water proof Boot crimps. Distilling spirits, still slops.	17 2 3 9 3 4 2 10 10 19 14 4 11 18 4 4	31 11 12 16 4 21 21 33 33 34 10 22 10
Whipple, John F Whipple, Milton D. Whipple, Milton D. Whipple, Squire. Whipple, Squire. Whipple, Sqlvester G. Whipple, Sylvester G. Whipple, Sylvester G. Whitser & Smith Whitcomb, Aaron Whitcomb, Henry. Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, T. N. and J. M. Whitcomb, William White, Asa. White, Canvas. White, Canvas. White, Cosman. White, David. White, Elihu, assignee of G. W. Grater. White, Elihu, assignee of M. D. Mann	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for. Distilling, rectifying. Gold, separating and grinding. Wheels. Tire bending, &c Cannon, method of discharging. Saw mills. Distilling, still for. Water wheel. Beshive Stamps for post office. Cement, water proof. Cement, water proof. Boot crimps. Distilling spirits, still slops. Blocks, stereotype, extendible.	17 22 3 29 3 4 20 10 10 11 11 11 18 4 4 16 4 18	36 9 4 19 7 10 4 21 34 32 35 10 22 36 10 22 36 10 22 36 22 36 22 36 22 36 22 36 22 36 22 36 22 36 22 36 22 36 36 36 36 36 36 36 36 36 36 36 36 36
Whipple, Milton D. Whipple, Milton D. Whipple, Squire. Whipple, Squire. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whisler & Smith Whitcomb, Aaron Whitcomb, Henry. Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, T. N. and J. M. Whitcomb, William White, Canvas. White, Canvas. White, Cosman. White, Cosman. White, Cosman. White, Ciphulan. White, Ciphulan. White, Ciphulan. White, Ciphulan. White, Canvas. White, Canvas. White, Canvas. White, Canvas. White, Ciphulan. White, Ciphulan.	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for Distilling, rectifying Gold, separating and grinding. Wheels Tire bending, &c Cannon, method of discharging. Saw mills Distilling, still for. Water wheel. Beehive Stamps for post office. Cement, water proof. Cement, water proof. Boot crimps Distilling spirits, still slops. Blocks, stereotype, extendible Types, caster, vertical	17 22 3 29 10 10 10 11 11 11 18 4 16 4 18	38 9 4 15 16 16 4 21 32 32 32 34 10 22 33 34 34 34 34 34 34 34 34 34 34 34 34
Whipple, Milton D. Whipple, Milton D. Whipple, Solomon. Whipple, Solomon. Whipple, Squire. Whipple, Sylvester G. Whips, John. Whister & Smith Whitaker, John. Whitcomb, Aaron. Whitcomb, Henry. Whitcomb, Hiram. Whitcomb, Hiram. Whitcomb, T. N. and J. M. Whitcomb, William White, Asa. White, Canvas. White, Canvas. White, Canvas. White, Cosman. White, David. White, Elihu, assignee of G. W. Grater. White, Elihu, assignee of M. D. Mann	Axes, forming the eyes of. Wool, cleaning from burs, &c Files, machine for cutting. Bridges, truss iron Hats, bonnets, &c., bark for Distilling, rectifying. Gold, separating and grinding. Wheels. Tire bending, &c Cannon, method of discharging. Saw mills. Distilling, still for. Water wheel. Beehive Stamps for post office. Cement, water proof. Cement, water proof. Boot crimps. Distilling spirits, still slops. Blocks, stereotype, extendible. Types, caster, vertical. Types, rubber, or machine for, &c	17 22 3 29 10 10 10 11 11 11 18 4 16 4 18	3

PATRIMBUM.	MVRNTIONS OR DISCOVERIES.	CLASS.	PAG
White, George B	Filtering water	11	9
Thite & Hill	Lathe, turning	14	2
White, Horace	Leather splitting	16	2
White, Israel	Plane, plough	14	Ω
Vhite, James	Stoves, cooking	5	1
Thite, John	Cement, hydraulic	4	1
Vhite, John	Washing machine and churn	17	3
White, John	Coffices, of artificial stone, &c	223	3.
Thite, John	Coffine, from hydraulic coment	22	3.
White, John	Steam, generating	.6	1
White, John	Writing deak and table combined	17	3
White, John G	Pump, forcing, double	11	2
White, John J	Life preserver, safety	7	1
White, Joseph, S. Marsh, and H. Smith	Displication of the control of the c	20	3
White, Josiah	Distilling, still for	4	1
White, Josiah	Propelling boats, &c	7	1
White Josiah	Press, oil	12	2
Vhite, Josiah	Canals, locks	9	1
Vhite, JosiahVhite, Josiah	Canal lock, balance for	9	1
White, Josiah.	Nails, cutting and heading	2	
Fhite, Josiah.	Rolling iron, &c	2	
White, Lacy	Rolling metals to bar, &c		
White, Lemuel B	Saddles	16	2
White, Lemuel B.*	Mineral water, soda fountain, &c	4	1
vince, Denimor D	Pump, stomach and breast, and cup-	00	9
White, Leonard	ping, &c	20	3
Fhite, Loyd	Shingles, cutting	14	9
Thite, Maunsel		14 5	î
Vhite, N. D., J. and H. C. Gleason, as-	Kettles, sugar, setting, &c	•	•
signees of Horace Barbour	Carding engine, feeding, &c., rollers of	3	
White, Philemon	Press, cotton	12	2
White, Philip	Shaving leather and splitting skins	16	3
White, Prentiss	Thimbles, ships	7	1
White & Quimby	Vencers, sawing, &c	14	2
White, Rand	Press, cheese	19	2
White, Rollin	Loom, weaving bolting cloth, &c	3	
White, Samuel	Hulling clover seed, &c	1	
White, Samuel G	Files, cutting, and rasps	2	
White, Samuel W	Hats, buoyant, life preservers	3	1
Vhite, Sidney	Spinning machine	3	١.
White, Sullivan	Press, cheese.	12	5
White, Thomas	Silk, finishing, machinery for	3	١.
White, Thomas	Composition for teeth	4]
White, Thomas	Saw mills	14	1 5
White, William, assignee of G. Merrick.	Bagasse, drying	4	1
Phitehead, Jesse	Spinning, regulating the drag of the		
Vhitehead, Jesse	yarn in the operation of	3	
Whitehead, Jesse.	Cotton, roping.	3	
Phitehead, Jesse	Spinning, speeder for cotton roping, &c		
Vhitehead, John	Picker, and lap machine	3	[
Whitehead, William.	Loom, power, lathe for	3	l
Whitehead, William, jr	Spinning, roping, cotton, &c	3	ĺ
Phitchill, James.	Spinning, roping, and twisting, &c Thrashing machine	3	l
Vhitehouse, Turner	Lock door	1 2	1
v nitenouse. Turner	Lock door		1
Vhitehouse, Turner	Locks mortine	3	l
Vhitelaw and Stirrat - see Finlay.		3	L
Vhiteley, Francis	Compage medrant 40	8	Γ,
A Direlea. Thomas As	Measuring and transferring liquids	11	1
Vhiteley, William H	Furnace, hot air, &c., heating apart-	11	1
	monte.		1
Thiteman, John	Hulling cotton, clover Ac	li	١ '
48 * The Date effected in Su	abler's patent, p. 349, should be annexed to W		

Patenters.	INVENTIONS OR DISCOVERISM.	CLASS.	PAGE.
Whiteman, J	Cordage, rope making	3	70
Whitemell, Thomas	Distilling mash, cooling for	4	105
Whitemell, Thomas	Mash, cooling, for distillation	4	110
Whiten, John C	Picker, and spreading cotton	3 5	86 123
Whiten, Nathaniel D	Baker; tin	ĭ	12
Whitfield, Edward	Pump, frictionless	11	226
Whitford, John A	Corn sheller	1	9
Whitford, John A	Carriage, railroad, &c	10	208
Whitham, William	Steam engine	6	157
Whities, Thomas A	Plough	4	1117
Whitin, Nathaniel D	Cocks, or gas stoppers	11	220 112
Whiting, Charles & W James	Oil, extracting	3	80
Whiting, C., J. Goulding, & W. James Whiting, C., S. Lowder, & Sam'l Lowder	Carding rolls, cotton, forming	3	68
Whiting, Ebenezer	Saw set, applicable to saws, &c	2	57
Whiting, Ebenezer G	Plough	1	18
Whiting, Eben	Blocks, making	7	167
Whiting, Eben	Gin, cotton	3	75
Whiting, Eb	Fireplace	5	126
Whiting, John	Cooking stove	5 5	140 139
Whiting and Mears	Cooking stove	12	244
Whiting, Nathan	Press, hay, cider, &c Excavator, scraper, shovel, &c	- <u>9</u>	196
Whiting, Nathaniel P		16	300
Whiting and Parsons	Tin, opening sheet	2	61
Whiting, Preston	Straw bonnets, pressing	3	94
Whiting, Ruggles	Bulkhead, water tight, for, &c	7	169
Whiting, Sidney	Spinning, roping, cotton, &c	3	91
Whitlaw, Charles		15	16
Whitley, Thomas W	Glass cases	15 1	288 19
Whitlock, George		i	25
Whitlock, Sidney B	Cordage, rope, yarn, spinning	3	70
Whitlock, Thomas B	Wheels, boxes for	10	212
Whitlow, Charles		4	111
Whitman, Abial, jr	Beehive	1	3
Whitman and Baker	Spinning, roping, cotton	3	91
Whitman, David	Loom, power	3 1	81
Whitman, Ezra, jr		5	135
Whitman, Ezra, jr., assignee of Ezra			
Whitman		17	316
Whitman, Lorin M	Rake, horse, hay	1	22
Whitman, Luther	Thrashing machine, &c	1	32
Whitman, Luther and Ezra	Thrashing machine	,1	39
Whitman, Samuel		15	289
Whitman, Samuel S	Map holders, manner of constructing.	17 3	313 74
Whitman, Shepherd	Steam engine, rotary	6	160
Whitman, Stephen W	Plough	ĭ	17
Whitman, Stephen W	Shoes, horse, cast iron, oxen	2	59
Whitman, Willard	Horse power	13	255
Whitmarsh, Asaph	Mortising door stiles, &c	14	270
Whitmer, David	Darry cooler	1	900
Whitney, Able and Popul	Stumps, extracting	9	200
Whitney, Ab'm—see Beard.	Stores (design)	5	136
Whitney, Amaziah		ĕ	158
Whitney, Asa.		2	46
Whitney, Baxter D., and Geo. W. Law-	Cloth, stretching, in the process of		
ton.	fulling	3	69
Whitney and Burr	Spark catcher	6	155
Whitney, Calvin	Loom, warping	3	89

Patriffrin.	INVENTIONS OR DISCOVARIES.	CLASS.	PAGE.
Whitney, Ebenezer	Harness, horse collars	16	297
	Saw mills	14	274
	Gin, cotton	3	75
Whitney, Esau and Jacob, and William			
F. Card	Water wheel, reaction	11	234
Whitney, Henry, and T. Leighton	Lamps, glass socket for	5	132
Whitney, Lewis	Corn sheller	1	5
Whitney, Nathan	Churn	1	0.45
Whitney, Otis	Press, cotton	12	243
Whitney, Richard	Screw, wedge	2 2	56 48
Whitney and Robinson	Knobs, glass, for doors, &c	14	272
Whitney, Samuel	Planing boards, &c	4	119
Whitney, Warham	Mash machine for distilleries	4	iñ
Whitney, Warham	Pump, suction	11	227
Whiton, Lyman	Stays for supporting spine of human		
,,,,,,,,,, _	body	20	343
Whiton, Milo J	Bark, grinding, cracking corn, &c	13	249
Whiton, Milo J., (assignee of Isaiah	Data, Brinding, account out, and		
Scudder	Bark mill	13	250
Whiton, Simeon	Beer, vegetable	4	100
Whitsitt, Charles	Saw, rotary, for cutting round tenons.	14	276
Whitson, Abm	Distilling	4	104
Whitson & Haynes	Cooking stove, portable	5	144
Whitson, Thomas	Cooking stove	5	139
Whitson, Thomas	Flues of open fireplaces	5	127
Whittaker, Welcome	Hinges, butt, &c	2	46
	Skates	2	
Whittemore, Amos	Cards, wool	3	68
Whittemore, Amos	Loom	3	79
Whittemore, Amos	Nails, cutting	2	51
Whittemore, Amos	Perambulator, nautical	.7	171
Whittemore, Herald	Clapboards, from round logs	14	267 151
Whittemore, Jas. M	Cook melanas mata	6 11	220
Whittemore, Wm., jr	Cock, molasses gate	3	75
Whittier, David	Piston for pumps, working	11.	224
Whittier, Lyman	Churn	î	
Whittier, Otis W	Fire-arms, many chambered, &c	19	334
Whittlesey, Isaac N	Steam engine, rotary	6	161
Whittimore, Homer	Cards, boards, &c	3	68
Whittimore, Wm., jr	Gin, cotton, roller	3	76
Whittimore, Wm , jr	Gin, cotton, roller	3	76
Whittimore, W. and W. Whittimore, jr.	Gin, cotton, roller	3	75
Whittingham, Richard	Tongs, fire irons, &c	2	G
Whitworth, Joseph	Streets, sweeping and cleaning	9	200
Wiard, Thomas	Plough	1	16
Wiard, Thomas	Ploughs, gang of	1	90
Wiard, Wm	Raising canal boats, &c	9	199
Wiard, Wm	Plough	1	17
Wiatt, Haut C	Spark catcher	.6	155
Wikest James S and W.	Carriages, detaching horses from	10	200
Wiskensham & Crosser (not Greens as in	Leather hats, manufacturing	16	298
Wickersham & Crozer, (not Grozer as in Classification	Christ mill	19	253
		13 15	290
	Pipes, of clay	72	322
	Delineator, for fac similes Thrashing machine	10	30
Widdefield, James	Propelling hosts by screw wheel	7	174
	Water wheel, perpetual	1i	231
	Barrels, &c., chamfering, &c	14	266
	Boring machine	14	266
Wier, John	Blinds. Venitian, raising and lowering	9	191
	Chimneys, for the draught of	5	19

Pathyride. Syventions or Discoveries.	CLASS.	PAGE.
Wieting, Archibeld	5	141
Wiggins, Cuthbert Beehive	Ĭ	3
Wigglesworth, Michael		70
Wight, Oliver B Washing machine		317
Wightman, Hugh, (incorrectly printed	ĺ	ĺ
Whiteman in Classification) Carding machine	3	68
Wightman, Jas. P Composition, water proof, &c	4	163
Wightman, Joseph M., (not Wrightman		
as in Classification)		225
Wighton, Wm Distilling, still for		106
Wilbar, Zibeon Spark arresters		155
Wilber, Eaton	17	315
Wilbor & Soper Distilling, still, steam and water boiler	1 .4	106
Wilbur, Apollos Shingles, sawing		279
Wilbur, Borden	1 1	116
Wilbur, Borden		113 319
Wilbur, Clan		240
Wilbur, Harvçy Elevating hayBedsteads		307
Wilbur, Harvey Bedsteads Raising water from wells		290
Wilbur, Jeremiah, (assignee of Clinton Loom, weaving figured and other fa-		~~
G. Gilroy, of Great Britain.)	3	81
Wilbur, Job		235
Wilbur, Zibeon Locks, safety		50
Wileox, Amander N Spinning cotton, wool, &c	1 =	89
Wilcox, Philip	1 -	143
Wilcox, Philip Cooking stove, construction		10
Baker, economical	5	123
Wilcox, Philip Baker and roaster, economical		123
Wilcox, Philip Stoves, heating apartments		145
Wilcox, Philo F Baker, steam Baker, steam	5	123
Wilcox, Richard Locks	2	49
Wilcox, Richard Engine, hydro-pneumatic	11	222
Wilcox, Richard	18	398
Wilcox, Richard Ovens, portable, retary	5	134
Wilcox, Richard Metallurgical operations	2	51
Wilcox, Richard Metallurgical operations with anthra-	1 .	
cite coal	3	51
Wilcox, Richard Metallurgical operations, &c		51
Wilcox, Richard		399
Wilcox, Richard Distilling by steam	4	165
Wilcox, Roswell, Loom Loom		89
Wilcox, Roswell	3	
Wilcox, Roswell	11	252
Wilde, Oliver	3	72
Wilder, Abijah	10	233
Wilder, Aretas A	14	333
Wilder, Aretas A Boring and screw cutting machine Shingle machine	14	275
Wilder, Danforth	i	14
Wilder, Enos Garments, pantaleons, straps for	21	399
Wilder, James M Meat cutters	17	313
Wilder, John Steam engine, valves, &c	6	162
Wilder, J. N., W. E. Bleeker, and S. D.		
Vose, assignees of William Shaw Stove, (design)	5	137
Wilder, Luke Fonges, backs	2	13
Wilder, Mark Pegs, shoe, splitting	14	271
Wildes, Benjamin Suspenders, manufacturing	21	354
Wildman, Nirum Hats, by steam, and hardening		76
Wildman, Russell, (not Wildham, as in		
	21	369
classification)		3.7.2
classification)	5	189
classification)	5 11	100

PATERFESS.	THYRNTIONS OR DISCOVERIES.	CLASS.	PAGE.
Wilhelm, Charles	Lamps, lard	5	133
Wilkerson, Job	Napping cloth	3	84
Wilkes, George	Saddles, trees	16	300
Wilkes, Samuel	Hinges, casting on their axis	2	46
Wilkinson, Arnold	Polishing iron and brass wire for, &c.	2 9	55 192
Wilkinson, David	Canals, locks	9	193
Wilkinson, David	Packing cotton	12	241
Wilkinson, David	Screws, cutting	2	57
Wilkinson, Garner	Axletrees, hub and spokes	10	205
Wilkinson, Garner	Window blinds	9	201
Wilkinson, Garner	Bridges, draw	9	192
Wilkinson, Jeptha A	Loom reeds, machine for making	3	82
Wilkinson, Jeptha A	Loom reeds, heddles or harness	3 14	82 266
Wilkinson, Job	Boring and mortising Currycombs	2	41
Wilkinson, Vernum	Truss, gum elastic, hernia	20	344
Wilkinson, William W	Shingles and staves, shaving	14	280
Willard, Benjamin F	Lights, revolving, &c	5	184
Willard, Elias	Composition, cure for cancers	4	102
Willard, Elijah	Raising water from wells	11	226
Willard, Elijah	Raising water from wells	11	228
Willard, Elijah	Water, drawing from wells	11	229
Willard, Elijah	Bucket, well, emptying	11 20	219 341
Willard, James HWillard, Julius	Bones, setting, apparatus for Shot, manufacturing	19	337
Willard, Julius	Brick press	15	
Willard, Julius	Brick press, bridle	15	286 287
Willard, Simeon B	Churn	1	5
Willard, Simon	Clocks	8	183
Willard, Simon	Board, shearing	14	266
Willard, Simon	Timepiece	8	187
Willard, Simon	Saw mills	14 14	274 269
Willard, Simon	Nails, cutting and heading	2	209 52
Willard, Simon B	Scrubbing floors	17	313
Willard, Simon, jr	Thrashing and cleaning grain	1	27
Willard, Simon, jr	Washing machine	17	315
Willard, Simon, jr., (not Simeon, as in			
classification)	Washing machine	17	314
Willard, Simon, jr	Water wheel	11	250
Willemin, Eli	Balance, steelyards	12	240 6
Willemin, EliWillerd, Julius	Brick press	15	267
Willet, N. C.	Dough, kneading	17	312
Williams, Abel	Cutting potatoes, &c	17	311
Williams, Benajah	Boats, canal	7	168
Williams, Charles	Railroad	9	197
Williams, Charles	Car, railroad	10	206
Williams, Charles	Packing cotton	19	241
Williams, Charles G	Printing press, cylindrical	18 11	397 221
Williams and Collins	Eagine, fire, and water pump Lamps, lard, &c	5	132
Williams, Elijah		4	114
Williams, Elijah	Pot ask and pearl ash	4	114
Williams, Daniel		5	139
Williams, Daniel			
4000 D 1 1	the human body, &c	21	361
Williams, Daniel	Tanning, bark for	16	301
Williams, Daniel	Garments, measuring for	21	362 194
Williams, Daniel, jr Williams, Davis, 3d		9 21	350
Williams, Denison		3	74
Williams, Denison			353
	,, g		

PATENTEES.	INVENTIONS OR DISCOVERSES.	CLASS.	PAGE
	Dyeing furs, wool, and hair skins	4	10
Williams, Denison	Moccasins, socks	31	35
	Pile driving machine, &c	9	13 I.a
	Protractor, universal.	8	18
	Loom, temples, &c	š	8
Williams, Evert	Rollers, covering, for sizing	3	8
Williams, Goliah	Loom, beam for	3	.8
Williams, Henry B	Chasometer	3	105
	Dresses, ladies', frame, finishing	21 9	35) 19(
	Inclined planes for boats, &c Washstand	17	31
	Pistons, packing	-6	. 15
Williams, John	Beer, making spruce	ă	9
Williams, John, jr	Engine, fire	11	22
Williams, John, jr	Screw wrench	2	5
Williams, John H	Steam, producing, &c	6	16
	loe breaking machine	7	17
	Thrashing machine	6	3
	Boilers, steam, supplying with water.	9	15 19
	Roads, constructing	9	19
	Sugar, claying, moulds	4	11
Williams & King	Carriages and machinery, &c	10	90
Williams, Michael	Navigating rivers in shoal waters	7	17
Williams, Palmer	Screws, of screw bedsteads	2	5
	Pump boxes	11	23
Williams, Samuel	Composition, covering the bottom of		
Williams Gamusl G	Vesecls	4	10
	Mats, of Manilla grass, &c	3 4	8
	Salt, manufacturing	i	11
	Tanning	16	30
	Press, lever, windlass	12	24
	Corn, covering,	1	
Williams, Thomas	Tanning, scraping flesh and hair, &c.	16	30
	Seeding corn, &c	1	2
Williams, Thomas R	Felt, manufacturing, for bottoms of		
Williams, Thomas R	vessels, &c	3 '	. 7
	Felt cloths, without spinning, &c	3 (•
The state of the s	Stuffs, &c., machinery for manufac- ture of.	3 1	9
Williams, Thomas R	Loom	3	7
Williams, Thomas R	Cataract, instrument for operating	20	34
Williams, Thomas B	Lancet, spring, and retreating	20	34
Williams, Wm	Hulling clover seed, &c	1	1
Williams, William M	Lock, door, and key	2	1
Williamson, James	Grates, portable	5	15
	Cooking stove, premium railway	5 2	14
Williamson, Peregrine	Plane irons	17	3
	Bedsteads	17	3
Willamson, Peregrine	Bedsteads, cot	17	3
Villiamson Persorine	Shot, manufacturing, and bullets	19	3
Williamson, Percerine	Auger, screw	14	90
villamson, Peregrine	Coffee roaster	5	15
Williamson, Peregrine	Coffee woaster	.5	E
Williamson, Peregrine	Pen, metallic, writing	18	3
	Pen, metallic	18 20	3
Williamson, Stephen D.	Corn eradicator	22	3
Willis, Charles	Corn sheller	1	•
Willis, Occar	Gold machine, called railway car	2	•
	Gold, swinging riddle, &c	9	4

PATENTEES. INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Wis, Richard Bugle, Kent	18	321
Willis, Wm Straw cutter	1	25
Willis, Wm Plough, drill, and cotton thinner	1	20
Willis, Wm Straw, cutting box	1 7	20
Willis, Wm Propelling spring and marine valve	7 6	178 157
Willis, Wm Steam engine, anti-steam power	6	15
Willis, Wm Atmospheric engines, &c Williston and Arnold Stoves, cooking, with elevated ovens.	5	14
Williston and Arnold Ovens, elevated, &c	5	134
Williston, Gordon Baker, tin	5	. 123
Williston, John Blocks used in building vessels	7	168
Willoughby, James D Lathe, turning	14	26
Wills, Harry A Spikes, wrought iron, machine for		
making	2	61
Wills, Samuel H Screws, cutting in wood	14	271
Willson, Christian Motion, double acting, &c Motion, double acting,	13	256
Willson, D. G Washing machine	17	316
Willson, George W Washing machine	17	316
Willson, Robert Lock, door, &c Lock	2	41
Wilmarth, Ezra Shearing cloth	3	. 87
Wilmer, Benjamin Measuring heights and distances	8	184 342
Wilmot, Samuel Lancet, or guard spring	20	5:
Wilmot, Samuel, jr	î	11
Wilson, Alexander M Cutting grass and grain	9	200
Wilson, Alexander M Streets, machine for sweeping	i	11
Wilson, Alexander M	19	333
Wilson & Beckwith Capstans for ships, &c	7	169
Wilson, Carrington Cooking stove	5	139
Wilson, Carrington, jr Cooking stove	5	140
Wilson, Charles Thrashing machine	1	31
Wilson, Charles	11	220
Wilson, David Winnowing machine	1	35
Wilson, Clark, (not Willson, as in class.) Water wheel	11	230
Wilson, Ebenezer Lard, randering Lard, randering	4	106
Wilson, Ebenezer, and Milo Lec Butter working, machines for	1	4
Wilson, Edwin D	17	317
Walker Boxes, &c., making	22	357
Wilson, George W Lock, door, and latches	2	49
Wilson, Henry Spinning machine	3	90
Wilson, Henry Spinning wheel	3	93
Wilson, Increase Coffee mill	13	260
Wilson, Increase	13	251
Wilson, Increase Grist mill	13	253
Wilson, Increase Door knockers, &c	2	41
Wilson, James Stoves, improvement in constructing	5 3	145
Wilson, James Spinning fliers, for wheels	5	90 124
Wilson, James	5	143
Wison, James	5	140
Wilson, James Grates, union	5	130
Wilson, James Stoves, Franklin	5	145
Wilson, James Grate, parlor	5	129
	6	153
ty hitch, jaince there excesses a constant in the second cost in the cost in t	21	359
Wilson, James G		352
Wilson, James G Garments, measuring and cutting	21	
Wilson, James G	21	00.
Wilson, James G	21	353
Wilson, James G	21 13	353 254
Wilson, James G	21	353

PATENTESS.	INVENTIONS OF DECOVERING.	CLASS.	PAGE
Wilson, John W	Vessels, yards, tenses for	7	17
Wilson, Jonathan D	Hats, stiffening	3	7
Wilson, Joseph	Hoe, pronged	1	1
Wilson, Joseph	Press, hay, hops, &c	19	94
Wilson, J. B. and A. R. Crossman	Brick press and tile	15	26
Wilson, Mark L	Lime, spreading	1	1
Wilson, Matthew	Thrashing machine and grist mill	1	3
Wilson, O	Cooking stove	5	13
Wilson, Rebert	Saddles, spring seat, riding	16	200
Wilson, Robert	Stoves, cooking	5	14
Wilson, Robert	Alarm bell for timepieces	8	18
Wilson, Samuel	Harness, edging and preparing leather	'	۱
	for	16	29
Wilson, Samuel	Plough, shovel cutter	1	9
Wilson, Samuel	Straw cutter	1	9
Wilson, Thomas.	Smut machine	1	3
Wilson, Thomas D.	Press, cotton and hay	12	34
Wilson, William	Locks and keys	2	5
Wilson, William.	Latch, mortise for doors	2	1 3
Wilson, William	Steam wheel	6	16
Wilson, William.	Andirons	3	3
Wilson, William.	Door springs	2	
Wilson, William.	Flat or sad iron, &c		8
Wilson, W. W. and C. Dickerman	Paper sizing	.8	21
Wilt, Jer. (not Wilts as in Classification)	Wheels, boxes, cast mon	10	1
Wilt, Samuel	Plough	1	•
Wilt, Samuel C	Bee moths, improved lantern, &c	l	15
Wilton, Henry	Spark arresters	6 9	19
Wilton, Henry Wiltse & Farnham	Bridges, construction of	3	9
Wiltse, James.	Spinning wool and cotton	7	17
Winans, N. T. and T. Hyatt	Splints, match, manufacturing	14	99
Winans, N. T. and T. and T. Hyau	Matches, friction, composition	4	ii
Winans, N. T. and T. and T. Hyatt	Matches, friction, composition	4	ii
Winans, Ross	Steam engine, locomotive	6	15
Winans, Ross	Steam engine, locomotive	6	15
Winans, Ross	Steam engine, blowing fire	6	15
Winans, Ross.	Steam engine, framing	6	15
Winans, Ross	Fulling cloth by steam	3	7
Winans, Ross	Springs for railroad cars	10	21
Winans, Ross	Car, railroad	10	20
Winans, Ross	Car, railroad	10	90
Winans, Ross	Steam engine locomotive	6	15
Winans, Ross.	Plough, cast iron	1	1
Winans, Ross.	Wheels, car, locomotive engine	10	91
Winans, Ross	Steam engine, 6 and 8 wheeled	6	15
Winans, Ross	Steam engine, &c	6	15
Winans, Ross.	Heating water for steam engines	6	15
Winans, Ross.	Steam engine, locomotive, &c	6	16
Winans, Ross	Axletrees, railway and other carriages	10	20
Winchester, Stephen	Washing machine and churn	17	31
Windle, H. C., J. Gillot, and S. Morris.	Pen, metallic	18	35
Windship, Chs. M	Lacteal or artificial breast	90	Ж
Wing, Abner	Charn	1	
Wing, Calvin	Water wheel, reacting	11	22
Wing, Calvin.	Carding wool	.3	6
Wing, Calvin.	Vice, perpetual lever	11	94 93
Wing, Calvin.	Water wheel and casting	11	23
Wingate, Frederick	Water wheel	11	
Wing, Paul	Cooking stove	5	13 9
Wing & Root	Smut machine, grain, dc	1	15
William Warren P	Steam engine	6	
Wing, Warren P. Wing, Warren P.	Water wheel, current	11	25

Wing, William G. Winning, Wm. Winnort, Samuel. Winslow, E., T. Chandler, J. M. Millikin, and H. Winslow. Winslow, Humphrey. Winslow, James M. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Seth E. Winslow, Thomas F., and T. Osgood. Winter, Elisha. Winter, Gabriel. Winter, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wisewell, Andrew. Wiswell, Andrew. Wiswell, Andrew. Wiswell, Daniel H. Wiswell, Daniel H. Wiswell, Daniel H. Wiswell, Samuel, jr. Witherle, Joshua. Witherl		
Winslow, Ke., T. Chandler, J. M. Millikin, and H. Winslow. Winslow, E., T. Chandler, J. M. Millikin, and H. Winslow. Winslow, James M Winslow, John S. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas. Winter, Gabriel. Winter, Gabriel. Wise, John J	18	32
Winning, Wm	5	12
Winrott, Samuel. Winslow, E., T. Chandler, J. M. Millikin, and H. Winalow. Winslow, Humphrey. Winslow, James M. Winslow, John . Winslow, John F. Winslow, John F. Winslow, John F., ass'ee of W.Whitaker Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Thomas F., and T. Osgood. Winter, Gabriel. Winter, John . Winter, John . Wise, John J	21	35
Winslow, E., T. Chandler, J. M. Millikin, and H. Winslow. Winslow, Humphrey. Winslow, James M. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Seth E. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas F., and T. Osgood Winter, Gabriel. Winter, Gabriel. Winter, John M. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wisewell, Andrew. Wisswell, Andrew. Wiswell, Andrew. Wiswell, Andrew. Wiswell, Daniel H. Wisevell, William M. Wister Wheels, spokes, dreasing. Wiswell, William M. Wister, John A. Wisterly, Samuel, Jr. Witherle, Joshua. Witherle, Joshua. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Plough	5	14
Winslow, Humphrey. Winslow, Jumes M. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, John F. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathaniel. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas. Wintlow, Thomas. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wisewell, Andrew. Wisewell, Andrew. Wiswell, Andrew. Wiswell, Andrew. Wiswell, Daniel H. Wiswell, Daniel H. Wheels, spokes for. Wiswell, William M. Wiswell, Samuel, jr. Witherlow, Samuel, jr. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherew, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherence. Witherence. Witherence. Plough. Plough.	۱ و	14
Winslow, Humphrey. Winslow, John		113
Winslow, John	4	
Winslow, John F. Winslow, John F. Winslow, John F. and Israel Blanchard Winslow, John F., ass'ee of W.Whitaker Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Seth E. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas. Winter, Gabriel. Winter, Gabriel. Winter, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wisewell, Andrew. Wisewell, Andrew. Wiswell, Andrew. Wiswell, Daniel H. Wiswell, Daniel H. Wiswell, Daniel H. Wiswell, William M. Wisterby & Torrey. Witherby, Silas. Witherby, Silas. Witherle, Joshua. Witherle, Joshua. Withere, Joshua. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Plough Plough Plough Plough Plough Plough Plough Plough Plough Plough Plough Plough Plough	17	31
Winslow, John F	14	26
Winslow, John F. and Israel Blanchard. Winslow, John F., ass'ee of W. Whitaker Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Seth E. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas F., and T. Osgood. Winter, Gabriel. Winter, John. Wise, John J. Water wheel, with folding lede. Planatine, John J. Water wheel, w	15	28
Winslow, John F. and Israel Blanchard den's patent. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Seth E. Winslow, Thomas. Winslow, Thomas. Winter, Elisha. Winter, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise-Bart, James. Wiswell, Andrew. Wiswell, Daniel H. Wiswell, Daniel H. Wiswell, Daniel H. Wisterby, Silas. Wisterby, Silas. Wisterd, John A. Wisterd, John A. Wisterd, John A. Wisterd, John A. Wisterd, John A. Wisterl, Samuel, Jr. Witherle, Joshua. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Wisterd Namund. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Winson Mathan. Cooking stove. Smut machine. Spark catcher. Plages, construction of. In machine. In machine. In machine. In machine. In machine. In machine. In machine. In machine. In machine. In machine. In machine. In machine. In machine. In ma		4
den's patent. Hinges, butt, forming the eyes of. Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Thomas. Winslow, Thomas. Winslow, Thomas. Winter, Elisha. Winter, Gabriel. Winter, John . Wise, John J. Water and animal power. John J. Wise, John J. Wise, John J. Water and animal seaten. John J. Water and animal seaten. John J. Wise, J	2	7
Winslow, John F., ass'ee of W.Whitaker Winslow, Nathan		
Winslow, Nathan. Winslow, Nathan. Winslow, Nathan. Winslow, Seth E. Winslow, Thomas. Winslow, Thomas. Winter, Elisha. Winter, Gabriel. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wisewell, Andrew. Wiswell, Andrew. Wiswell, Andrew. Wiswell, Daniel H. Wiswell, Daniel H. Wiswell, Daniel H. Wiswell, William M. Wisterby, Silas. Withered, J. Witherill, Samuel, jr. Witherle, Joshua. Witherle, Joshua. Witherve, Joshua. Witherve, Joshua. Witherve, Joshua. Witherve, Joshua. Witherve, Joshua. Witherve, Joshua. Witherve, Joshua. Witherve, Joshua. Witherve, Joshua. Witherve, Joshua. Witherve, Samuel. Witherve, Samuel. Witherve, Samuel. Witherve, Samuel. Witherve, Samuel. Witherve, Samuel. Witherve, Samuel. Plough Plough Cooking stove. Grates, pendulum. Grates, pendulum. Grates, pendulum. Smut machine. Balance or scale beam. Water wheel, with folding ladle boards I Horse shoes, chain links, &c. Press, screw, double. Spark catcher. Press, screw, double. Spark catcher. Press, screw, double. Spark catcher. Water and sawing timber. I Maising water and sawing timber. I Maising water and sawing timber. I Maising water and sawing timber. I Maising water and sawing timber. I Maising water and sawing timber. I Maising water and sawing timber. I Maising water and sawing timber. I Maising water and sawing timber. I Maising water and sawing timber. I Maising water and sawing timber. I Maising water and sawing timber. I	2	6
Winslow, Nathan	2	4
Winslow, Nathaniel	5	13
Winslow, Seth E. Winslow, Thomas. Winslow, Thomas F., and T. Osgood. Winter, Elisha Winter, Gabriel. Winter, John Wise, John J Wise, John J Wise, John J Wise, John J Wise, John J Wise, John Gorte, action of Wiseman, Isaac Wiswell, Andrew Wiswell, Andrew Wiswell, Daniel H Wiswell, William M Wist, John A Wister wheel, with folding ladle boards Hores shoes, chain links, &c Spark catcher. Raising water and sawing timber Press, screw, double Spark catcher. Raising water and sawing timber I Press, construction of Piano forte, action of Piano forte, tuning Sugar, making, from wheat, &c Garments, tailors' square delineating. Garments, cutting Wiswell, Daniel H Wheels, spokes for Wheels, spokes for Wheels, spokes for Wheels, spokes for Carments, cutting the bodies of coats in one piece Wheels, spokes, dressing Garments, cutting the bodies of coats in one piece Wheels, spokes, dressing Carments, cutting the bodies of coats in one piece Wheels, spokes, dressing Carments, cutting the bodies of coats in one piece Wheels, spokes, dressing Carments, cutting the bodies of coats in one piece Wheels, spokes, dressing Carments, cutting the bodies of coats in one piece Coffee mill, double Spark catcher. Water and animal power Coffee mill, double Spinning wool Lead, white, washing Fur, cutting from peltry. Screws, by circular cutter. Witherle, Joshua Witherle, Joshua Witherle, Joshua Witherle, Joshua Witherow, Samuel Witherow, Samuel Plough, mould-board of. Plough, mould-board of. Plough Witherow, Samuel Plough	5	- 19
Winslow, Thomas. Winslow, Thomas F., and T. Osgood. Winter, Elisha. Winter, Gabriel. Winter, John Wise, John J. Wise, John J. Wise, John J. Wise, John J. Wiseheart, James. Wiseman, Isaac. Wiswell, Andrew. Wiswell, Andrew. Wiswell, Daniel H. Wiswell, William M. Wisvell, William M. Wiszt, John A. Wisterby & Torrey. Withered, J. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherle, Joshua. Witherle, Joshua. Witherow, Samuel. Plough	1	2
Winslow, Thomas F., and T. Osgood Winter, Elisha	12	23
Winter, Elisha	11	23
Winter, Elisha	2	4
Winter, Gabriel. Winter, John Wise, John J Wise, John J Wise, John J Wise, John J Wise, John J Wise, John J Wise, John J Wise, John J Wise, John J Wise, John J Wiseheart, James. Wiseman, Isaac. Wiswell, Andrew. Wiswell, Andrew. Wiswell, Andrew. Wiswell, Daniel H Wiswell, Daniel H Wiswell, Daniel H Wiswell, William M Wisterby, Silas. Witherby, Silas. Witherby & Torrey. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherve, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Plough	12	24
Winter, John	6	15.
Wise, John J. Press, construction of. Piano forte, act	11	22
Wise, John J. Piano forte, action of Piano forte, tuning 1 Wiseheart, James. Sugar, making, from wheat, &c Wiseman, Isaac. Filtering machine. 1 Garments, tailors' square delineating. 2 Garments, cutting. 2 Wiswell, Andrew. Garments, cutting. 2 Wiswell, Daniel H. Wheels, spokes for 1 Wiswell, Daniel H. Garments, cutting the bodies of coats in one piece 2 Wisterly, William M. Garments, cutting the bodies of coats in one piece 2 Wisterby, Silas. Boots, crimping. 1 Witherby, Silas. Boots, crimping. 1 Withered, J. Spinning wool. 1 Witherill, Samuel, jr. Lead, white Lead, white Lead, white Witherle, Joshua Fur, cutting from peltry. Screws, by circular cutter Witherle, Joshua Cook, passage of fluids. 1 Witherow, Samuel Plough Plough Witherow, Samuel Plough	12	24
Wise, John J. Wiseheart, James. Wiseheart, James. Wiseman, Isaac. Wiswell, Andrew. Wiswell, Andrew. Wiswell, Daniel H. Wiswell, Daniel H. Wiswell, William M. Wiszt, John A. Wisterby, Silas. Witherby, Silas. Witherby, Silas. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Witherow, Samuel. Plough Plough	18	32
Wiseheart, James Wiseman, Isaac Wisewell, Andrew Wiswell, Andrew Wiswell, Daniel H Wiswell, William M Wist, John A Witherby, Silas Witherby & Torrey Witherill, Samuel, jr Witherill, Samuel, jr Witherill, Samuel, jr Witherle, Joshua Witherle, Joshua Witherle, Joshua Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Witherow, Samuel Plough Sagar, making, from wheat, &c Garments, cutting: Garments, cutting Garments, cutting Garments, cutting Square making, from wheat, &c Square making, from wheat, &c Square making, from wheat, &c Square making, from wheat, &c Square making, from wheat, &c Square making, from wheat, &c Square making, from wheat, &c Square making, from wheat, &c Square making, from wheat, &c Square making, from wheat, &c Wheels, spokes for Laddenset, and animal power sin one piece Spinning wool. Lead, white, screening, &c Lead, white, washing. Screw, sliting and finishing, &c Plough muld-bard of.	18	32
Wiseman, Isaac. Wiswell, Andrew. Wiswell, Daniel H. Wiswell, Daniel H. Wiswell, William M. Wistr, John A. Witherby, Silas. Witherby, Silas. Withered, J. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherle, Joshua. Plough. Witherle, Plough. Witherle, Plough.	4	11
Wiswell, Andrew	11	22
Wiswell, Andrew. Wiswell, Daniel H. Wiswell, Daniel H. Wiswell, William M. Wiszt, John A. Wiszt, John A. Witherby, Silas. Witherby & Torrey. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherle, Joshua. Plough. Plough.	20	359
Wiswell, Daniel H. Wheels, spokes for. 1 Wiswell, Daniel H. Wheels, spokes, dreasing. 1 Garments, cutting the bodies of coats in one piece. 2 Wiszt, John A. Water and animal power. 1 Witherby, Silas. Boots, crimping. 1 Coffee mill, double. 1 Witherill, Samuel, jr. Lead, white. Witherill, Samuel, jr. Lead, white. Spinning wool. Lead, white. Witherill, Samuel, jr. Lead, white, screening, &c. Witherle, Joshua. Fur, cutting from peltry. Witherle, Joshua. Fur, cutting from peltry. Witherle, Joshua. Candlestick, pewter. Candlestick, pewter. Cook, passage of fluids. 1 Witherle, Joshua. Screw, slitting and finishing, &c. Witherow, Samuel. Plough. Mitherow, Samuel. Plough.	20	35
Wiswell, Daniel H Wiswell, William M Garments, cutting the bodies of coats in one piece		21
Wiszt, John A Witherby, Silas. Witherby & Torrey. Withered, J. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherell, Joshua. Witherle, Joshua. Plough, mould-board of. Plough.	1	
in one piece	10	21
Wisterly, Silas. Witherby, Silas. Witherby & Torrey. Withered, J. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Candlestick, pewter. Witherle, Joshua. Cook, passage of fluids. Witherow & Pierce. Witherow & Pierce. Witherow, Samuel. Plough. Witherow, Samuel. Plough.	21	35
Witherby, Silas. Witherby & Torrey. Withered, J. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherill, Samuel, jr. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherle, Joshua. Witherow, Samuel. Witherow, Samuel. Plough.	ii	22
Withered, J. Spinning wool. Witherill, Samuel, jr. Lead, red. Witherill, Samuel, jr. Lead, white. Witherill, Samuel, jr. Lead, white, screening, &c. Witherill, Samuel, jr. Lead, white, washing. Witherle, Joshua. Screws, by circular cutter. Witherle, Joshua. Candlestick, pewter. Witherle, Joshua. Screw, slitting and finishing, &c. Witherow, Samuel. Plough.	16	20
Withered, J. Spinning wool. Witherill, Samuel, jr. Lead, red Lead, white. Witherill, Samuel, jr. Lead, white. screening, &c. Witherill, Samuel, jr. Lead, white, screening, &c. Witherle, Joshua Fur, eutting from peltry. Witherle, Joshua Candlestick, pewter. Witherle, Joshua Cock, passage of fluids. 1 Screw, slitting and finishing, &c. Witherow, Samuel Plough	13	25
Witherill, Samuel, jr. Lead, red	3	9
Witherill, Samuel, jr. Lead, white	4	109
Witherill, Samuel, jr. Lead, white, screening, &c. Lead, white, screening, &c. Lead, white, screening, &c. Lead, white, washing. Fur, cutting from peltry. Screws, by circular cutter Candlestick, pewter Cock, passage of fluids 1 Witherle, Joshua Cock, passage of fluids 1 Witherle, Joshua Screw, slitting and finishing, &c. Plough, mould-board of Plough Plough	4	109
Witherle, Joshua	4	110
Witherle, Joshua		. 110
Witherle, Joshua	4	
Witherle, Joshua	3	74
Witherle, Joshua	2	5
Witherle, Joshua Screw, slitting and finishing, &c Witherow & Pierce Plough, mould-board of. Witherow, Samuel Plough Plough	5	124
Witherow & Pierce	11	22
Witherow, Samuel	2	58
Witherow, Samuel Plough	1	2
	1	1
Witherow, Samuel, assignee of Samuel	1	11
	_	
Ogle Plough	1	ľ
	18	324
	10	20
	13	254
Withers, Michael	1	13
	15	290
Withey, William B Fire escape	22	351
Witmer, Henry	4	103
Witmer, Henry Distilling, still for	4	100
	9	199
Witty, R. I. L Powder 1	19	336
	17	309

Patentres.	INVENTIONS QR DISCOVERIES.	CLASS.	PAGE.
Wolcott, Alexander S	Likenesses, concave reflector and		·
•	plate, &c	18	32
Wolcott, Anson	Alcohol, extracting from apples	4	9
Wolcott, A. and N	Alcohol, extracting by steam	4	9
Wolcott, Benjamin	Suspenders, manufacturing, &c	21	35
Wolcott, Benjamin S	Window sash, &c	2	6
Wolcott & Brown	Wool, cleaning	3	9
Wolcott, Erastus	Yarn, cotton, without the aid of twist		9
	Cloth, manufacturing	3	17
Wolcott, Nathaniel Wolcott, Peter T	Bedstead fastenings, &c	17	30
Wolf, Charles	Stoves, cooking	5	34
Wolf, George	Shingles, cutting	14	21
Wolf, George	Plough	ī	l ~i
Wolf, Andrew	Lock, door	2	4
Wolf, Daniel	Brick, moulding	15	96
Wolfe, T. Jefferson	Pumps	11	95
Wolfe, William Leo	Bedstead for the sick	17	36
Wolfersberger, Frederick	Beehives	1	
Wolfolk, James M.	Straw cutter	1	
Wollias & Barlow	Distilling	4	Н
Wolpers, Charles O	Fermentation, vinous, &c	4	1
Wood, Andrew	Chairs, easy	17	3
Wood, Andrew	Chairs, nursing	17	37
Wood, Asa, and David Wells see Bates.	TT-11:		Ι,
Wood, Benjamin	Hulling clover seed, &c	1 5	1
Wood & Brundage	Cooking stove	ĭ	1 3
Wood, C. S.—see Devlan, P. S.	Plough	•	1 1
Wood & Dart	Water power, application to mills	11	99
Wood, Elias	Spinning machine, domestic	3	9
Wood, George	Lever power, projectile	12	24
Wood, Horace	Wagon, and other carriages	10	21
Wood, Isaac	Churn	1	1
Wood, Israel	Distilling still, and large kettles, setting		10
Wood, James	Brick and tile	15	98
Wood, James	Shovels and spades	2	1
Wood, James	Rollers, cast iron, laminating, &c	.2	
Wood, James	Water wheel, horizontal	11	22
Wood, James John Wood and W	Water wheel, inclined	11	23
Wood, James, sr., John Wood, and W. Wood. (not William B. Wood, as			1
in classification)	Iron, sheet, manufacturing	2	1 4
Wood, James C	Cloth, ornamenting, &c	3	1
Wood, James S	Thrashing machine	1	9
Wood, James S	Thrashing machine	1	2
Wood, Jesse C	Raising water	11	2
Wood, Jethro	Plough	1	
Wood, Jethro Wood, John	Plough	1	
Wood, John W.	Plough, shifting share	20	3
Wood, Loftis	Truss for hernia	5	1
Wood, Loftis		5	i
Wood, Loftis,	Cambooses, ships', &c	5	Ī
Wood, Loftis	Stoves, cooking or cambooses,	5	i i
Wood, Reuben	Dyeing by steam		i
Wood, Richard	Inking apparatus, of Neal's, &c	18	3
Wood, Richard	Printing press, apparatus of Neal's	18	3
Wood, Richard L.	Fuel, rosin, pine for	5	r
Wood and Sabbatan	Marine railway, &c	9	1
Woods, Sidney			۱ ـ
Wood, Simeon	lating, &c	12	2
TERROR SIMEON	Shingles, shaving	14	l 28

PATENTARS,	INVENTIONS OR DISCOVERES.	CLASS.	PAGE.
Wood, Thomas	rea of irregular figures, finding	8	186
	hingles, cutting	14	278
Wood, William A., & John C. Loveland M	Iowing, grain cradles	1	15
Wood, William, jrFl	lour, preserving	13	251
Wood, William, pr	plints, flexible, for fractured limbs	20	343
Wood, William J	hrashing machine	1	30
	hrashing machine	1	39
	Vater wheel, tub	11	235 21 3
Woodbridge, W. E Lo	V heels, cart and carriage	10 2	50
	ock, safe	ıĵ	316
Woodbury, Daniel	lorse power, application of, to ma-	~	310
	chinery	13	250
	rimping leather	16	291
	lough	ĩ	18
	lough	1	18
	lough	ī	18
Woodcock, Bancroft	lough, self-sharpening	1	21
Woodcock, Bancroft	tove, cooking	-5	142
Woodcock, JohnSp	plitting skins, machine for	16	301
	alico, &c., printing	3	67
	ropelling vessels, improvement in	7	175
Woodel, Joel St	triker, for hammering iron	2	61
	aper, books, &c., machine for cutting	3	88
	crew, zigzag	2	59
	team engine, rotary, &c	6	161
	pinning and reeling	9	200
	cooling houses, constructing of metal	19	334
TTT 1 TTT:::	osts, iron, constructing	9	199
	oots and shoes, pegging	16	295
	uttons, composition for wire eyed	20	349
	urnaces, for anthracite	5	196
	lanting machine	1	16
	Distilling	4	104
	rads, cutting, &c	2	46
Woodsend, Thomas	lates, manufacturing	15	290
Woodside, Elbridge G	prings, carriage	10	21
	hips, machine for ascertaining ve-	_	
SUZ-adaida Tamas D	locity, &c	7	177
	ides, measuring, and vessel's ways,	-	170
Woodeide James D	. (C.C	7	178
Woodside, James D	ides, gauge	i	178
	ump, gauge	11	220
	Frick press	15	29
	Vater wheel	11	231
	toves, ventilating	5	141
	lowing, reaping machine	1	18
Woodward, Frederick Se	eeding, planting, plough	1	21
Woodward, Frederick	mut machine, scouring	1	9.
Woodward, Frederick	having leather	16	300
Woodward, Joel	addles, spring		291
	isterns, preventing water freezing in		93
Woodward, Joshua	arding machine	.3	65
Woodward, Lewis	Vashing machine	17	317
Woodward, Moses S B.	Scots, crimping leather for	16	293
	Brakes, for retarding carriages, &c	10	200 135
	amps, tallow	18	324
	encil case, ever-pointed	18	324
	hield pins, for securing showls, &c	2	59
		. ~	
	ens, metallic	18	394

Patritees.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGI
Woodworth, Arad, 3d	Planing blind slats	14	9
Voodworth, William	Fur. cleaning	3	1
Voodworth, William	Planing machine	14	9
Voodworth, William	Planing, grooving, &c., and dressing		i
,	brick	14	9
Toolley, John		2	1
Voolley, John		5	1
Voolley, John		9	1
Voolley, Joseph		1	ŀ
Voolley, Williams	Bedstead for the sick	17	3
Voolley, Williams	Bedstead, or chair, hospital	17	1 3
voolley, Williams	Bedstead, secret	17	1
Voolley, Williams	Window frieze and covering	9	1 3
Voolley, Williams		9	3
Voolley, Williams		17	1 3
Voolley, Williams		17	1
Voolsey, Richard		3	١.
Voolson, C. J.	Stoves, cooking	5	1
Voolson, Thomas		5	
oolson, Thomas		5	
oolverton and Ridgway	. Mill stones, dressing		1
Voolworth, Azariah		19	:
Voone, Godfrey	Calico, &c., printing	3	Ι.
Vooster, David S		17	:
Vooster, David S	Spinning wool	3	l
Vooster & Holmes		3	ì
Vorley, Joseph Vorman, Andrew D	Straw cutter	13	1
Vorrall, Henry	Plock sheeres and pulling blocks &c.	7	
Vorrall, Zebulon.	Block sheaves and pulling blocks, &c. Lamps, lard	5	
orsley, Joseph	Powder, granulating	19	
Vortham, Charles	Wheel, screw gear	13	
Fortham & Pelly.	Hats, napping, &c	3	1
Forthington, David		9	1
Vorthington, Henry R.	Steam engine, auxiliary, &c	6	1
orthington, Henry R.	Propelling canal and other boats	7	i
forthington, H. R see Baker, W. H.	. I ropositing committees to the committees	1	
right, Abel	. Saw mills	14	1
right, Charles C.	Bills of exchange	18	1
(right, Charles D	. Saw mill, tail blocks of, &c	14	i
Vright, Charles D	. Washing machine	17	
right, Daniel	. Splitting timber	14	
right, Duncan.	. Cloth, drying, by steam rollers	3	1
right, Francis.	. Hav and grain covering	1	1
Vright, George L.	. Ruling paper	18	1
right, Harvey	Razor case, portable		1
right, Horace.	. Coopering	14	1
right, Imla	. Mortising machine	14	1
right, Isaac S.			1
right, Isaac S		- 1	1
right, James	Spinning wheel		1
right, James	Railroads, for cars		1
right, James	Railroads, and cars to turn, dic	9	1
right, James	Car, railroad, self-adapting Distilling, alcohol	10	1
right, John	Distilling, alcohol	4	
right, John F			1
Vright, John S.	Plough	1	1
right & Ketchum	Axes, manufacturing		1
Vright, Lemuel W	Pistons for steam engines		1
Vright, Lemuel W	Bleaching cotton, &c		1
Vright, Lemuel W	Distilling		I
Vright, Lemuel W. Vright, Lemuel W.	Screw, manufacturing, &c		l
	Sugar, manufacturing		i

PATENTESS.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.	
Wright, Lemuel W	Heat, regulating by machinery	5	136	
Wright, Mercy	Clay, moulding and pressing, &c	15	286	
Wright, Peter M	Grist mill, family	13	254	
Wright, Peter M	Press, cotton	12	243	
Wright & Polley	Distilling still, copper	4	106	
Wright & Roberts	Spinning wheel	3	98	
Wright, Russell H	Wind wheel	111	235 239	
Wright, Russell H	Balance, perpetual	12	158	
Wright, Samuel	Steam engine, locomotive Corn shelling	ĭ	9	
Wright & Wilder	Steam engine, rotary	6	161	
Wright, William	Steam engine, rotary	6	161	
Wright, William	Boring machine for grooves, &c	14	266	
Wright, William	Loom	3	80	
Wright, William M	Boiler, steam, prevent explosions	6	153	
Wrightson, Jeremiah	Thrashing machine, teeth for	1	38	
Wyeth, Nathaniel J	Ice, car and retaining platform, &c	22	358	
Wyeth, Nathaniel J	Ice cutters and markers	22	358	
Wyeth, Nathaniel J	Ice, machinery for elevating blocks of		358	
Wyeth, Nathaniel J	Ice, machinery for reducing blocks of		358	
Wyeth, Nathaniel J	1 2	22	358	
Wrenth Nothenial I	Tee machinem for mining blocks of		330	
Wyeth, Nathaniel J	Ice, machinery for raising blocks of	22	358	
Wyeth, Nathaniel J	Ice, machinery for raising blocks of.		358	
Wyeth, Nathaniel J	Ice, cutting	7	170	
Wyeth, Nathaniel J	Carriage,railroad,fordischarging blocks	3		
,,	of ice, &c		208	
Wyeth, Nathaniel J	Carriage, railroad, machinery for ele		1 .	
	vating and depositing ice	. 10	208	
Wyeth, Nathaniel J	Sleds for transporting ice, &c	. 10	209	
Wyeth, Nathaniel J	Ice, cutting	. 22	358	
Wyeth, Nathaniel J			102	
Wyeth, Nathaniel J			358 312	
Wyeth, Noah			241	
Wykoff, Peter Wyman, James			280	
Wyman, Oliver			253	
Wyman, Oliver			6	
Wyman, Oliver			253	
Wyman, Oliver			253	
Wynkoop, Benjamin		. 7	175	
Wynkoop, Benjamin	Ventilators, nautical		178	
Wynkoop, Benjamin	Pumping shipe, pendulous vessels	11	227	
Yanger, Jacob	Plough, cast iron	. 1	19	
Yale & Curtis	Thrashing machine	- 1	31	
Yale, Ebenezer R		. 6	160	
Yale, Linus	Saw mills	114	274	
Yale, Linus			275	
Yale, Linus		1 2	49	
Yale, Linus, and Charles Wilson	Locks, combination, safety, for doors		1	
, ,	dsc	. 2	49	
Yale, L., S. W. Stimson, and N. Stimson		. î	98	
Yard, Jas. M	. Candles	. 4	100	
Yates, John B			24	
Yates, John C	. Saw mill, without saw gate	. 14	276	
Yates, Peter			1	
37. A 377	their shaft		269	
Yates, Wm., and Denis Dolan		7	غم د	
Varwood Insenh	Weshing machine	1 17	108	
Yarwood, Joseph	. Washing machine	. 17	314	

PATENTES.	INVENTIONS OR DISCOVERIES.	CLASS.	PAGE.
Yeamans, Joseph	Grist mill	13	253
Yeamans, Royal	Pumps	11	234
Yeamans, Royal	Boilers, steam	6	151
Yeamans, Royal	Boilers, steam	6	151 36
Yeckley, John A.	Winnowing wheat,	10	205
Yerkes, Richard E	Spinning fliers and spindles, &c	3	90
Youle, George.	Fire, hearth, range, &c	5	196
Youle, George	Kitchens, moveable	5	131
Youle, George	Cabooses	5	194
Youle George	Cabooses or stove, for cooking, &c	. 5	194
Youle George	Cock, water	11	231 134
Youle, George Youle, George	Cabooses	5 5	194
Youle, John	Cabooses for cooking	5	194
Youngs, Daniel	Thrashing and cutting	ĭ	96
Young, Edw. A. G.	Chimneys, cap for preventing, &c	5	194
Young, Edward L.	Flier for twisting silk, &c	3	74
Young, Elam.	Valve for boilers, revolving	6	163
Young, Elisha W., and Thos. H. Wilson,	Smut machine		
Young, Elisha W. and Wm. B.	Smut machine,	1	25 25
Young, E. and A. H.	Valve, screw, puppet or throttle	6	16
Young, Frederick	Nails, cutting and heading	2	59
Young, Hugh	Acid, mixing, for dying woollens, &c.	4	99
Young, James & Elmon Parker	Stoves, cooking	5	141
Young, John	Boots, machine for crimping	16	293
Young, J. H. and A. Delcambre	Type-setting machines	18	329
Young, Mason	Float, rotary, spiral spring, &c Hatters' fur machine	6	154 78
Young, Nicholas.	Hair, pulling from skins	3	76
Youngs, Seth	Barrels, gun, turning	19	333
Young, Thomas	Roofs, shingling	9	200
Young & Titus	Shoes, horse	2	59
Young, Wm	Lasts, manufacturing	14	200
Young W. G. againments A. H. Bain	Lasts, right and left	14	268
Young, W. G., assignor to A. H. Reip Young, Wm. J.	Bathing apparatus	20	341
Toung, Will. J.	Compass, surveying	8	194
Zacharie, Peter	Excavator, mud machine	9	196
Zacharic, Peter	Nails and brads, cutting	2	53
Zahm, Godfried M	Lock and key, door	2	50
Zall & Doyle	Soap, making by steam	4	116
Zeigler, Wm. B., (not Zeagler as in Clas.) Zellers, Isaac.		う 1	141
Zellnor, Arnold	Threshing machine, concaves, &c Flax and hemp, breaking, &c	3	7
Zellnor, Arnold	Flax and hemp, breaking, &c	3	7
Zigler & Enters. (Enters & Zigler in Clas.)	Light from stone coal gas	4	110
Zimmerman, William	Wind mill	11	936
Zimpel, Charles F	Car, railroad, running on a single rail	10	207
Zollickoffer, Wm	Wheels, apparatus to prevent falling,	10	212
Zollickoffer, William	Pating hides	16	292
Zollickoffer, William	Bating hides and skins	16	293
Zook, Shem	Plough	ī	17
Zorger, Michael	Hulling clover seed	1	13
Zwahlen, Louis	Organs, seraphina	18	394
Zwisler, James	Candles, dipping and moulding	4	100
Zwisler, James, jr	Candles, tallow and wax	4 21	101
particit, sames, Jrace and a contract of	Tailoring, art of	21	354

CORRECTIONS.

Note.—The following corrections (not errors of the press) have been discovered since the foregoing pages were printed.

```
Page.
              9th line from bottom, read Moorhead & Howell.
       6
              27th line from bottom, read Webber Furbish.
       9
              13th line from top, read Levi Stevens.
      17
              18th line from top, read James Bootwright.
21 or 114
              Insert Potatoes, sweet, mode of preserving, Aaron H. Vestal, 16th Aug., 1844.
             14th line from bottom, read John F. Schermerhorn, &c.
Insert Smut machine, Joseph Klein, July 24, 1843.
4th line from top, read Elisha W. Young & Thos. H. Wilson.
Insert Threshing machine, Pliny Weller, March 7, 1846.
     23
     24
     25
     28
              16th line from top, read David Flagg, jr.
      30
              Insert Rolling irregular figures to pattern, Wm. Field, Pawtucket, R. I., Aug. 7, 1844. 30th line from bottom, read Jas. Wood, sr., John Wood, and W. W. Wood.
      36
      47
      49
              14th line from top, read P. B. Quimby.
      60
              26th line from bottom, read Luther Boardman.
              29th line from top, read Hugh Wightman.

24th line from top, read Geo. E. Waring, Richard E. Peterson, (administrators of A. S. Wolcott, deceased, and John Johnson.)
      71
      85
              16th line from top, read David H. Gilbert
      94
              16th line from bottom, read Sparkman & Kelsey.
     95
              25th line from top, read August 22, 1846.
    109
              Insert Gum, extracting from unrotted hemp, Sands Olcott, Harsimus, N. J., Decem-
                   ber 3, 1828.
    110
              26th line from bottom, read William Cornell.
              27th line from bottom, read J. & N. jr., Parce.
Insert Preserving timber, &c., from decay, John H. Kyan, March 31, 1832.
    113
    114
    125
              16th line from top, read Frederick Grey.
    125
              8th line from top, read Geo. H. Crosley.
    129
              26th line from top, read William Blake.
     133
              8th line from top, read Silas B. Terry.
     138
              6th and 7th line from top, the note attached to Atwater's patent should be annexed to
                  Spoor's.
    138
              7th line from bottom, read Thomas Mills.
8th line from top, read W. B. Zeigler.
    141
    141
              30th line from top, read Simon Pettes.
    151
              23d line from top, read J. C. F. Salomon.
    158
              6th line from top, read Jos. S. Pirsson, jr.
    160
              27th line from bottom, read Elijah H. Read.
    161
              28th line from top, read Robert C. Grant.
     170
              15th line from bottom, read J. Townsend, assignee of W. Hunt.
    185
              9th line from top, read Isaac Schnaitmann.
              15th line from bottom, read Bolles.
9th line from top, read Nathaniel Rider.
"Bailroad plates, James Stimpson." The note attached to this patent should read—
"Renewed and extended seven years," &c.
"The note attached to this patent."
    187
192
    198
    199
              "Railroad, turning short curves, James Stimpson." The note attached to this patent should read—"Renewed and extended seven years," &c.
              15th line from bottom, read C. J. Schirer, &c. 22d line from top, read Jos. F. Talson.
19th line from bottom, read John G. Tibbets.
    201
    211
    212
    212
              10th line from bottom, read Jer. Wilt.
    219
              11th line from bottom, read Daniel Strobel, jr.
              18th line from bottom, read John Stevens, jr.
              19th line from bottom, read John R. Morrison
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Page
220
          34th line from bottom, read Jer. Garey.
 220
          9th line from bottom, read John Morris.
 224
          8th line from top, read Thos. B. Robbins.
 225
          15th line from bottom, read Joseph M. Wightman.
          9th line from bottom, read Lonson Bush.
9th line from bottom, read W. L. Elgar.
34th line from bottom, read Clark Wilson.
 229
 230
 230
231
          18th line from bottom, read John Caldwell.
 232
          31st line from bottom, read F. H. Southworth.
          17th line from bottom, read Chauncey Crane and Evert L. Wemple.
 239
          3d, 6th, and 33d line from top, read B. Morison.
 239
          4th line from top, read John Galvin.
 246
          16th line from top, read Wickersham & Crozer.
 253
 257
          3d line from bottom, read David Stem.
 257
          33d line from bottom, read John G. Ross.
 268
          1st line from bottom, read Elijah Putnam.
 282
          24th line from bottom, read Benjamin Crehore.
 294
          15th line from bottom, read Moses Pennock.
 295
          14th line from bottom, read Peletiah Stevens, jr.
 301
          7th line from bottom, read Simon Snyder.
 302
          19th line from bottom, read Rouse & Taylor.
          3d line from bottom, read William Beaman.
 309
          29th line from top, read Joel Pratt, 3d.
 309
 311
          13th line from bottom, read Henry Bangs.
 314
          22d line from top, read Simon Willard, jr.
          9th line from bottom, read Joseph Greenleaf.
Insert Copying machine, Luman Carpenter, Oswego, N. Y., Dec. 31, 1849.
 317
 322
 323
          32d line from bottom, read Samuel Fairlamb.
          7th line from top, read Jer. Carhart.
 324
 324
          17th line from bottom, read Middlebury. 24th line from top, read A. B. Taylor.
 327
 328
          6th line from bottom, read Harvey Moore.
 334
          17th line from bottom, read "Paine & Bennet, (Paine, assignee of Haviland.)"
 343
          4th line from top, read John L. Sullivan.
          10th line from bottom, read William Fosket. 7th line from top, read David L. Pendell.
 352
 352
          1st line from top, read Henderson & Cooper.
 352
          8th line from bottom, read Russell Wildman.
 352
 358
          Insert Pins, sticking into paper, John J. Howe, Derby, Conn., February 24, 1843.
 376
378
          Strike out Henry Bauss, &c.
Strike out Beeman, William, &c.
Strike out Belles, William, &c.
 378
         Insert Biggs, James, tenoning machine, C. 14, P. 281.
Strike out Black, William, &c.
Insert Francis & Thomas Burdick, mortising timber, C. 14, P. 271.
 381
 382
 394
          Crehore, Benjamin, for the 360 page read 282.
Insert P. P. N. D'Alvigny, bath, vapor, C. 20, P. 341.
 411
 414
 419
          De Savignac-see Savignac.
         "Fosket, William," crase the parenthesis, and add class 21, page 352. Insert Frazier, Blanchard & Gill, Stoves, C. 5, P. 136. Erase Frick, Albert D., &c.
 436
 438
 438
 439
          Fuller & Thomas—see Thomas & Fuller.
 445
          Goodrich, Gideon, &c., for 343 p. read 342.
         Insert Jones, Eells & Griswold, Springs, carriage, attaching carriage bodies to them, C. 10, P. 211.
 477
 432
          Insert George Kilburn, Machinery for raising heavy bodies, C. 12, P. 245.
         Erase 12th line from bottom, and note. Olcott, Charles, &c., C. 7, P. 169.
 505
 516
          The note attached to "Oagood & Hunt—see Corning, E.," should be annexed to O
 517
              good & Hunt above.
          Erase Parker, Z. A., and notes.
Insert N. Peck & D. Taylor, Cloth manufacturing, C. 3, P. 69.
 520
 523
 558
          31st line from bottom, read H. G. Tyer and John Helm.
 564
          1st line at top, strike out the note attached to this.
 593
           White, Lemuel B., the error noticed here appears to have been corrected in the dis-
              sification.
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